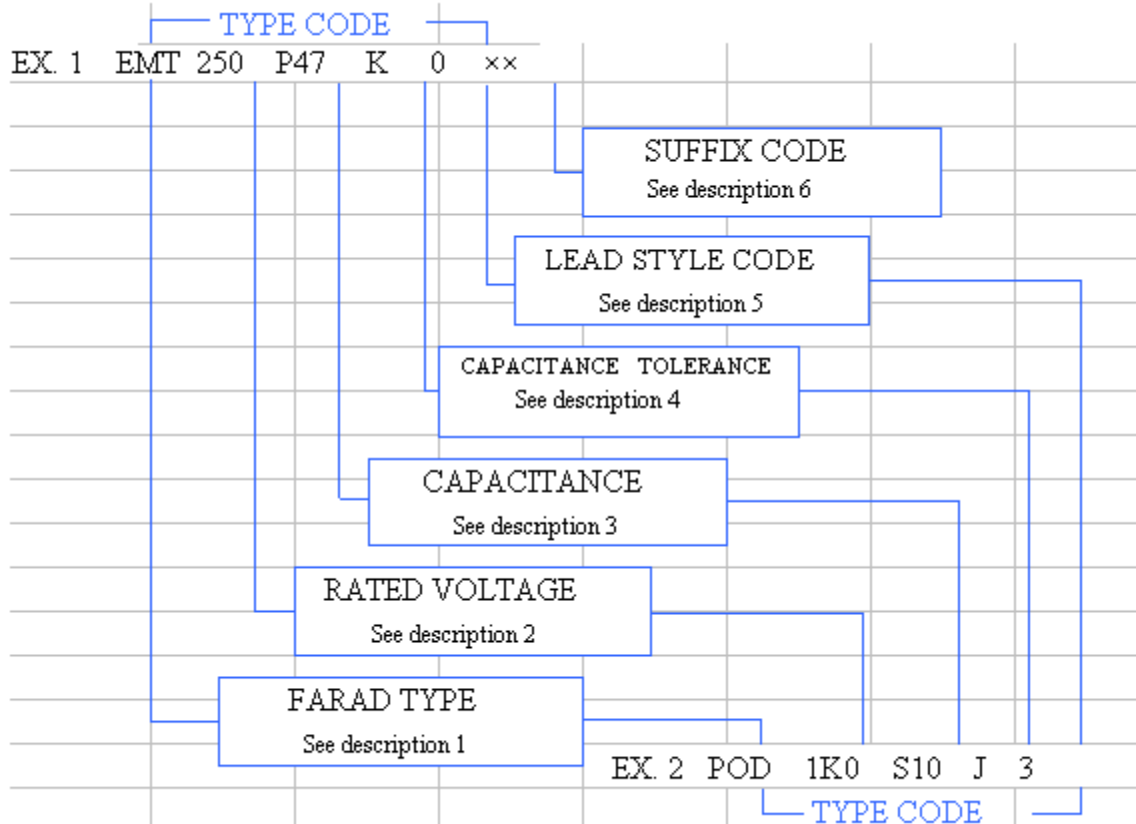


BREL CAPACITOR REFERENCE DATA-1

INSTRUCTION FOR MANUFACTURE CODE

Manufacture code including TYPE Code & Lot Number, such as



DESCRIPTION

1. Symbols of Farad Type: (with three letters)

a) First alphabet symbolizes dielectric used:

"E"-Polyester Capacitor as type: EOT, EMF, EWT, EHP, EXD, etc.

"P"-Polypropylene Capacitor as type: POT, PMD, POR, etc.

"C"-Polycarbonate Capacitor as type: CMD, CMF, CMT, etc.

"S"-Polystyrene Capacitor as type: SOQ, SOC, SOT, etc.

b) The second alphabet symbolizes product characteristics:

"M"-Metallized film dielectric material.

"W"-Wax impregnated for pulse application.

"O"-Not characteristic code defined but for computer code system.



BREL International Components, Inc.
1621 West University Parkway
Sarasota, Florida 34243



Phone: 941-355-9791
Sales: 800-237-4564
Fax: 941-355-1530
E-Mail: sales@brelintl.com
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"H"-Very high voltage film capacitor.

"X"-Across-Line capacitor.

c)The third alphabet symbolizes the construction:

T: Tubular/JIS 0.8 D: Dipped/JIS 93. Q: Tubular, Inductive. Z: Tubular, Coated.
R: Round/JIS 16. F: Flat Oval/JIS 91. P: Flat Oval, Inductive. G: Round, Inductive, Coated.
L: Inductive/JIS 92. K: Encased/JIS 99. C: Round, Inductive.

2.Symbols of Rated Voltage:(with three digits)

063: 63VDC/JIS 1J. 1K0: 1,000VDC/JIS 3A.
100: 100VDC/JIS 2A. 1K6: 1,600VDC/JIS 3C.
250: 250VDC/JIS 2E. 2N0: 20,000VDC/JIS 4D.
400: 400VDC/JIS 2G. 1A2: 120VAC.
630: 630VDC/JIS 2J. 2A2: 220VAC.



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BRELE CAPACITOR REFERENCE DATA-2

3. Symbols of capacitance in Mfd: (with three digits)

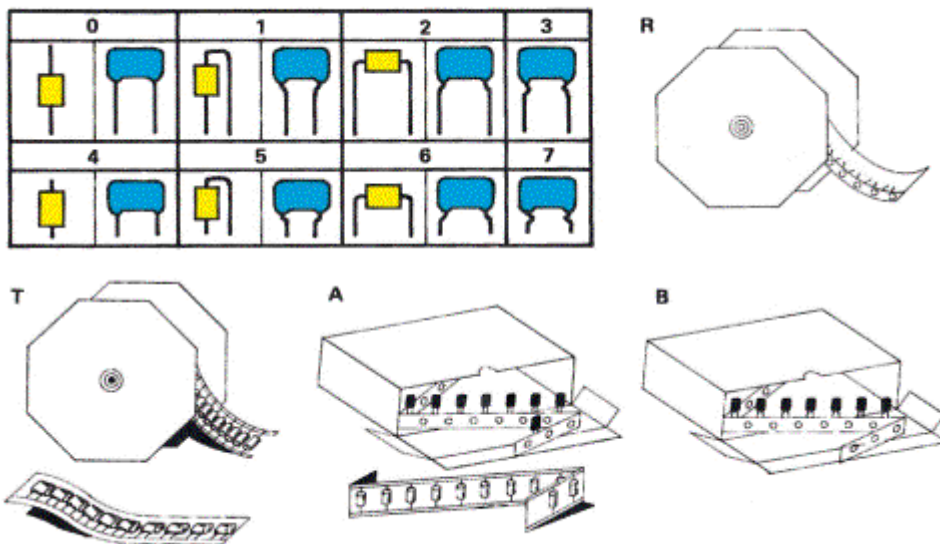
- A: Indicate tens. EX: 12Mfd=A12, 10Mfd=A10.(Mfd: Micro-Farad)
- W(Word): Indicate unit. EX: 1.5Mfd=W15
- P(Point): Indicate the first figure after decimal point. EX: 0.22Mfd=P22
- S(Single Zero): Decimal point follow one zero. EX: 0.015Mfd=S15
- D(Double Zeroes): Decimal point follow two zeroes. EX: 0.0047Mfd=D47
- T(Triple Zeroes): Decimal point follow three zeroes. EX: 0.00068Mfd=T68

4. Symbols of capacitance Tolerance: Same as JIS and EIA Standard.

| Symbols | B | C | D | F | G | H | I | J | K | M | N | V | Z |
|----------------------|------|-------|------|------|------|------|------|------|-----|-----|-----|---------|---------|
| Tolerance percentage | ±0.1 | ±0.25 | ±0.5 | ±1.0 | ±2.0 | ±2.5 | ±3.0 | ±5.0 | ±10 | ±20 | ±30 | +20 -10 | +80 -20 |

5. Lead Style Code:

- | | | |
|-----------------------------------|----------------------------|-----------------------------|
| 0 straight long leads/non-formint | 4 non-forming with cut | R: radial reel with forming |
| 1 inside forming without cut | 5 inside forming with cut | T: reel packing |
| 2 outside forming without cut | 6 outside forming with cut | A: ammo packing |
| 3 kink without cut | 7 kink cut | B:radial ammo with forming |



6. Suffix Code: It's a code for internal identification purpose.

BREL CAPACITOR REFERENCE DATA-3

Brel capacitors are produced by fully automatic machines and highly reliable and precise. They have been well controlled in each manufacturing process using techniques proven to be effective over many years. All capacitors are 100% tested and recorded on each production lot and the distribution curves are obtained directly from the dot matrix terminal printer for capacitance, dissipation factor, dielectric strength and insulation resistance on the final test report.

Unless otherwise specified, we apply MIL-STD-105E, Level II AQL 0.4% sampling plan for major electrical characteristics and 1.5% for minor characteristics before shipping.

***CAPACITANCE:** Measured at 1 KHz 25°C.

***INSULATION RESISTANCE:** Measurement shall be made at 20±5°C after applying for 60±5 sec. at rated DC voltage or 500 VDC whichever is lower.

***A.C. APPLICATION:** The peak value of the superimposed AC plus DC voltage should not exceed the rated DC voltage. Please refer to relative characteristic on derated curves.

***TEMPERATURE COEFFICIENT:**(Refer to operating temperature range or within -40°C to +85°C.

Polyester :400±200PPM/°C
 Polypropylene:-220±110PPM/°C
 Polycarbonate:150±50PPM/°C
 Polystyrene :-150±50PPM/°C

***LONG TERM STABILITY:** Capacitance shall change no more than ±2% for Polyester & Polycarbonate and ±0.5% for Polypropylene & Polystyrene when stored for two years at temperature +20 to +40°C and R.H. 40 to 60%.

***LIFE TEST:**1000 hours at 85°C (70°C for Polystyrene Capacitor) with 150% rated DC voltage applied.

| Test criteria: | △C/C | △D.F. | △I.R. |
|----------------|-------|--------|-------------------|
| Polyester | ≤ ±5% | ≤ 1.2% | ≥ 0.5 × I.R. min. |
| Polypropylene | ≤ ±3% | ≤ 0.2% | ≥ 0.5 × I.R. min. |
| Polycarbonate | ≤ ±2% | ≤ 0.4% | ≥ 0.5 × I.R. min. |
| Polystyrene | ≤ ±2% | ≤ 0.1% | ≥ 0.5 × I.R. min. |

***FLAME RETARDANT:**

Flame retardant tape upon request; valox case, epoxy comply with UL 94 V-O.

***LEAD MATERIAL:**

Tinned copper clad steel wire meets requirements of IEC 384-1, IEC 68-2-20. Solder ability



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Test.

***PULL TEST:**

Meet IEC 384-1 4.13(IEC 68-2-21 Test Ua) test required.

***BEND TEST:**

Meet IEC 384-1 4.13(IEC 68-2-21 Test Ub) test required.

***VIBRATION TEST:**

Refer to IEC 384-1 4.17, capacitor is mounted in apparatus and subjected to a simple harmonic motion with 0.03" amplitude. The entire frequency range, from 10 to 55 Hz, applied for a period of 2 hours in each of 3 mutually perpendicular planes (total 6 hours). After the test, capacitor shall show no evidence of physical damage and electrical performance shall not be degraded.



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BREL CAPACITOR REFERENCE DATA-4

***HUMIDITY TEST:**

Refer to IEC 384-1 4.22, capacitors are subjected to an environmental test chamber at R.H. 90 to

95%, 40°C for 240 hours. After the test, capacitor shall be conditional at room temperature for 2

hours and meet the following criteria:

- (1) Capacitance changes shall be less than 5% for polyester, 3% for polypropylene, 2% for Polycarbonate and polystyrene.
- (2) Dissipation factor shall be less than 1.2% for polyester, 0.2% for polypropylene, 0.4% for Polycarbonate and polystyrene.
- (3) Insulation resistance shall be over 50% of the minimum requirement.

***MARKING:**

Capacitors are legibly and permanently marked with capacitance, tolerance, rated voltage in DC and manufacture's name "FARAD" trade mark: or symbol: " ", F.

***PACKING:**

Please refer to related pictures on inside back cover.

- (1) Bulk
Small inner cardboard box / PVC bag.
with desiccants and label packed in one standard export carton.
- (2) Axial Tape and Reel
5 boxed reels packed in one standard export carton.
- (3) Radial Tape and Reel (inductive and non-inductive)
 - (a) 8 boxed reels packed in one standard export carton.
 - (b) 10 ammo boxed reels packed in one standard export carton.

***LABEL FORM:**



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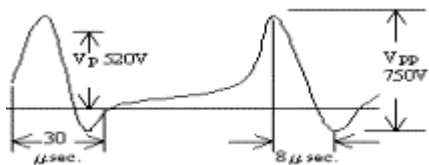
BREL CAPACITOR REFERENCE DATA-5

GENERAL APPLICATION REFERENCE:

Plastic film capacitors now widely used by electronic industry vary with the following factors. When selecting BREL capacitor, the following reference information is suggested to be taken into consideration.

(1) **FREQUENCY:** Polyester capacitor with higher dielectric loss factor is generally suitable to use at frequency below 10 KHz at a comparatively wide range of temperature. Polypropylene, with lower D.F. is the most popular selection for high frequency and higher pulse current application although its size is larger and lower temperature range. Polycarbonate has moderate features of both PE & PP, but the dielectric material cost much higher can't make application wide and common. Polystyrene shows excellent high frequency performance and is commonly used to replace Mica Capacitor, but lower temperature range and comparative larger size limit its application choice to low capacitance range.

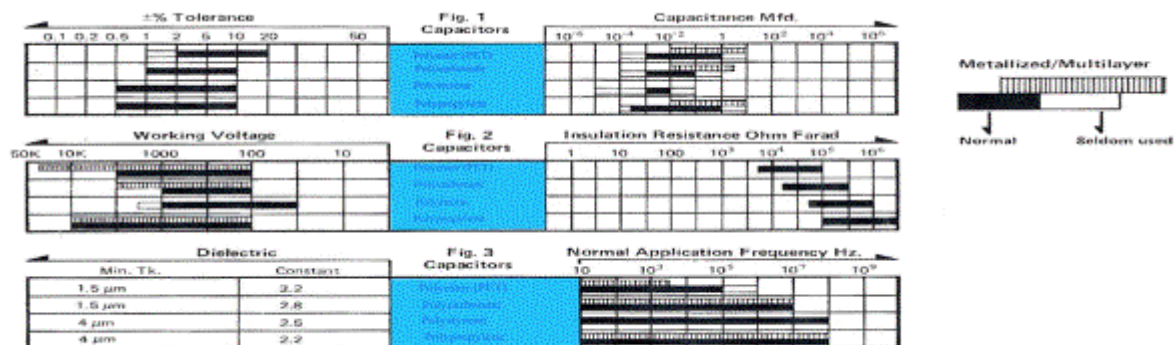
(2) **PEAK VOLTAGE:** The peak voltage against a zero potential reference shall always be less than nominal DC voltage rating of the capacitor. The rate of voltage change



(dv/dt) of individual specs is valid for pulse voltages equal to the rated voltage. If the pulse voltages are of lower values, a factor of "Vdc/applied voltage" may be multiplied. $V_p \leq V_{DC}$ rated and the V_{rms} voltage derived from the peak voltage shall always be less than the nominal AC voltage rating of the capacitor. $V_{rms} \leq V_{AC}$ rated (for sinusoidal wave where

$$V_{rms} = V_{pp} / 2 * \text{square_rt}(2))$$

(3) **PULSE CURRENT:** Proper selection of Farad capacitors can meet various usages when stressed under pulse or non-sinusoidal voltage. For instance: POR type: up to 10 Ap-p at 25KHz. PAD type: up to 20 Ap-p for frequency up to 100KHz. Fig. 1 to 3 show the general characteristics of capacitance, tolerance, insulation resistance, working voltage, dielectric constant, minimum thickness and application. For further details, please refer to each individual type and curves or contact Farad Business and Technology Department.



BREL CAPACITOR REFERENCE DATA-6

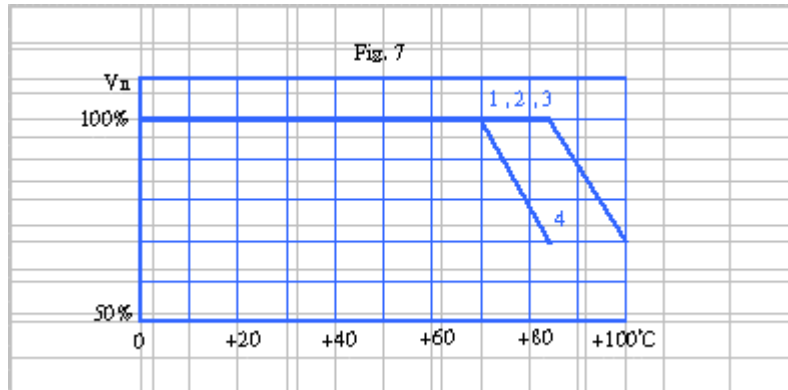
TEMPERATURE AND FREQUENCY CHARACTERISTICS

Curve 1: Polyester dielectric.

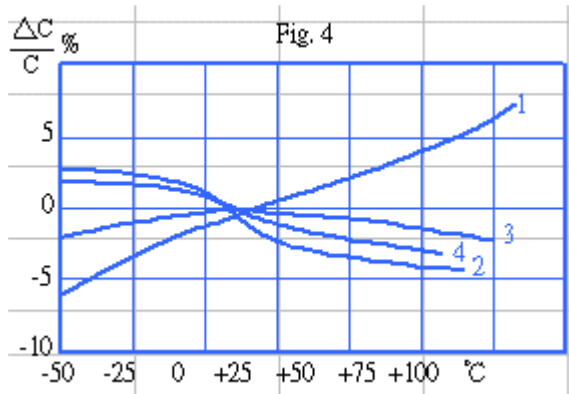
Curve 2: Polypropylene dielectric.

Curve 3: Polycarbonate dielectric.

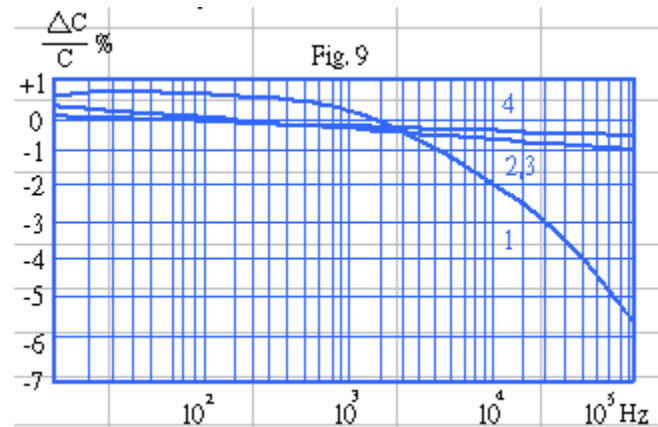
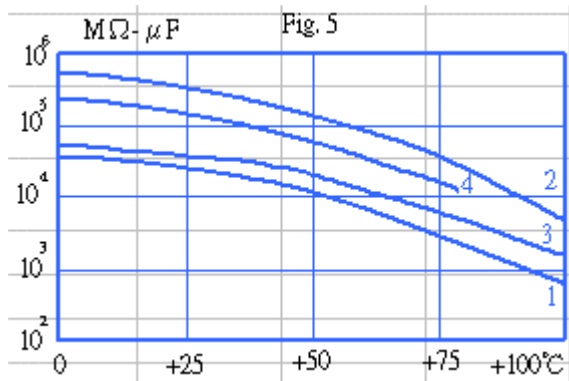
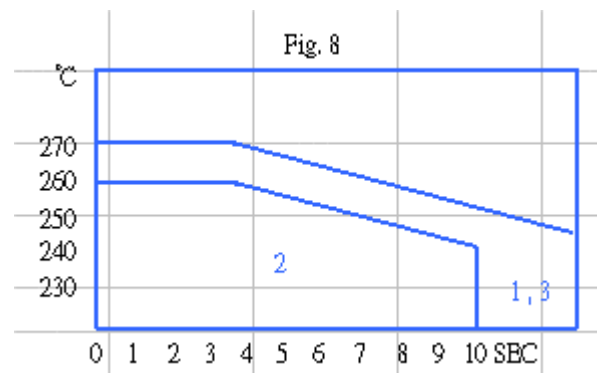
Curve 4: Polystyrene dielectric.



TEMPERATURE CHARACTERISTICS



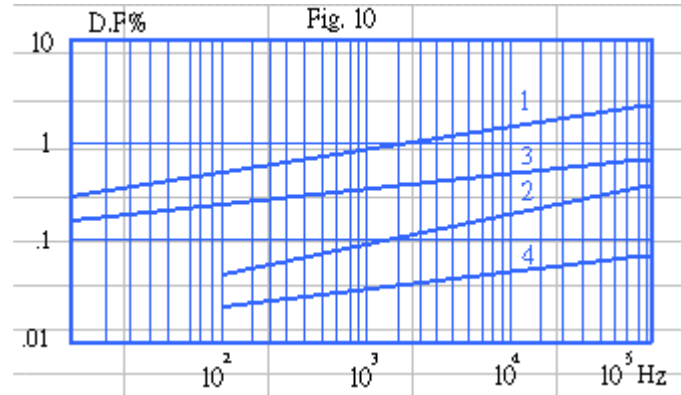
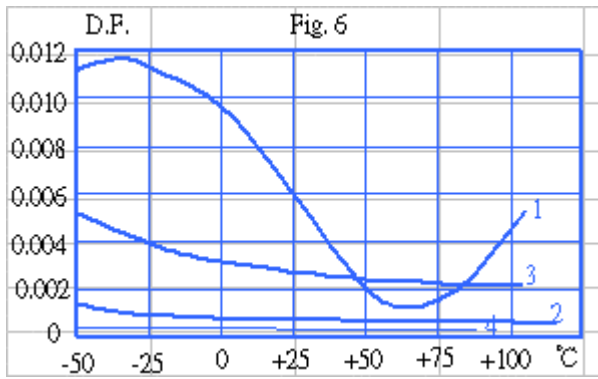
SOLDERING TEMPERATURE VS TIME



BREL International Components, Inc.
1621 West University Parkway
Sarasota, Florida 34243



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 1621 West University Parkway
 Sarasota, Florida 34243



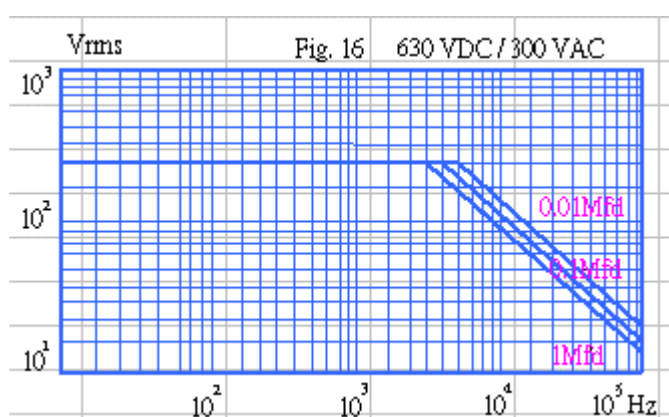
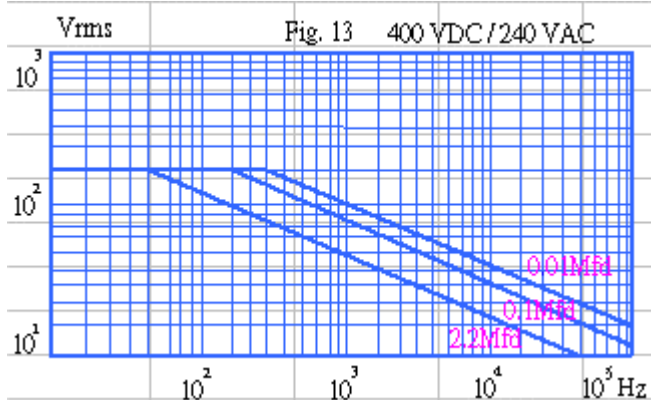
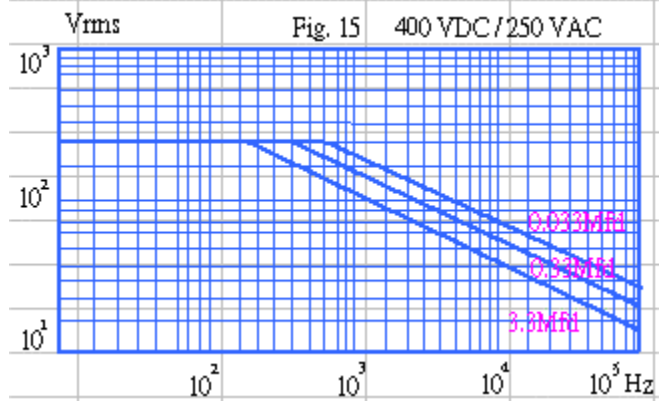
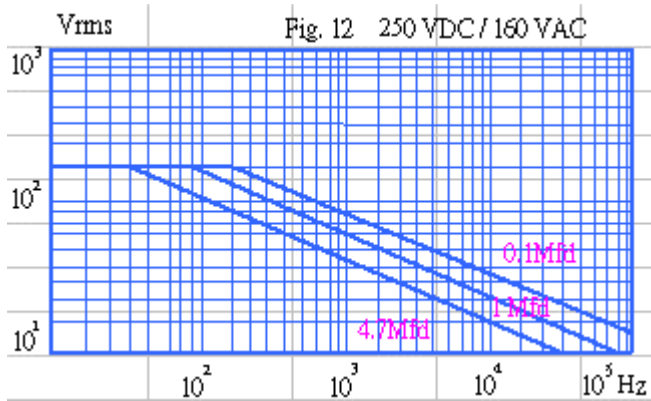
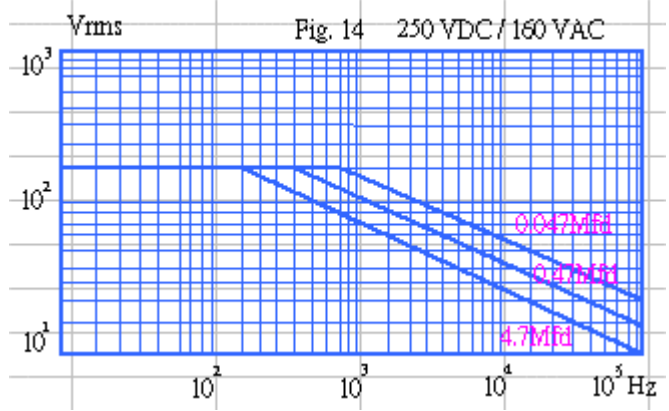
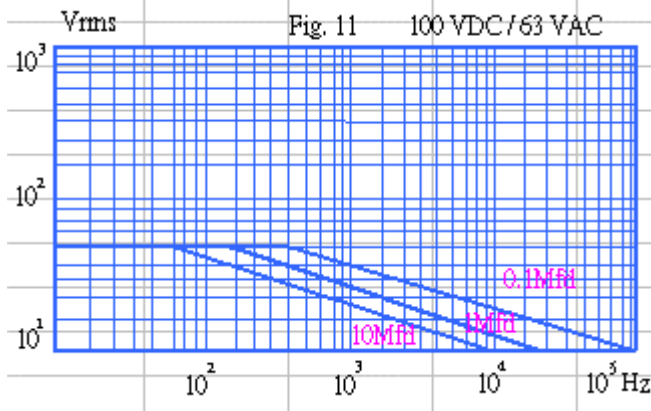
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BREL CAPACITOR REFERENCE DATA-7

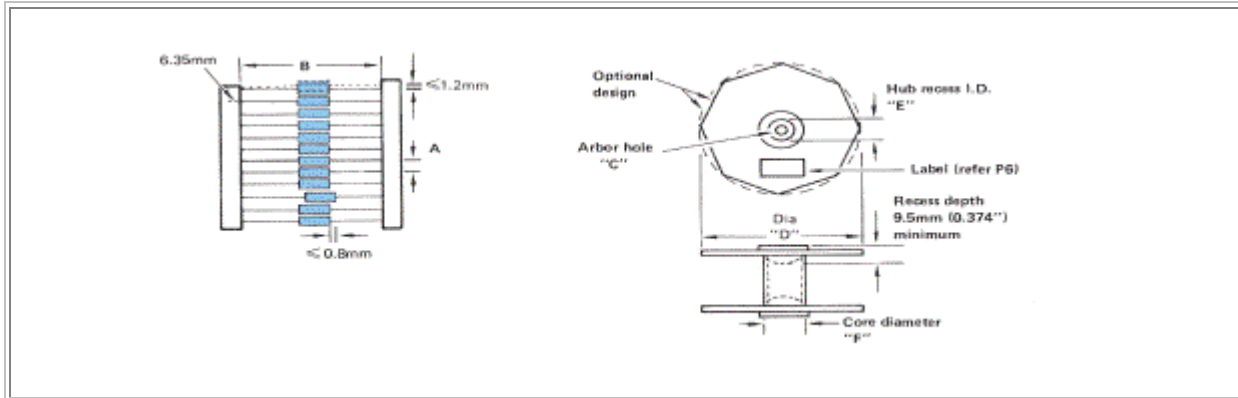
AC RATED VOLTAGE-FREQUENCY DERATING CHARACTERISTICS

*Fig. 11 to 13: Polyester dielectric.

*Fig. 14 to 16: Polypropylene dielectric.



BREL CAPACITOR REFERENCE DATA-8
TAPE & REEL OF AXIAL LEAD CAPACITORS FOR AUTOMATIC
INSERTION EIA STANDARD RS-296-D



| CAPACITOR BODY DIAMETER | CAPACITOR PITCH "A" $\pm 0.5mm(0.020")$ |
|--|---|
| $\varnothing 5 \text{ mm (} \varnothing 0.197" \text{)}$ | 5 mm or 0.200" |
| 5.01-10 mm (0.197-0.394") | 10 mm or 0.400" |
| 10.01-15 mm (0.394-0.591") | 15 mm or 0.600" |

| CAPACITOR BODY LENGTH | INSIDE TAPE SPACING "B" $\pm 1.5mm(0.059")$ |
|---|---|
| $\varnothing 16.50 \text{ mm (} \varnothing 0.65" \text{)}$ | 52.4 mm or 2.062" |
| 16.51-28.45 mm (0.651-1.12") | 63.5 mm or 2.500" |
| 28.46-37.00 mm (1.121-1.45") | 73.0 mm or 2.874" |

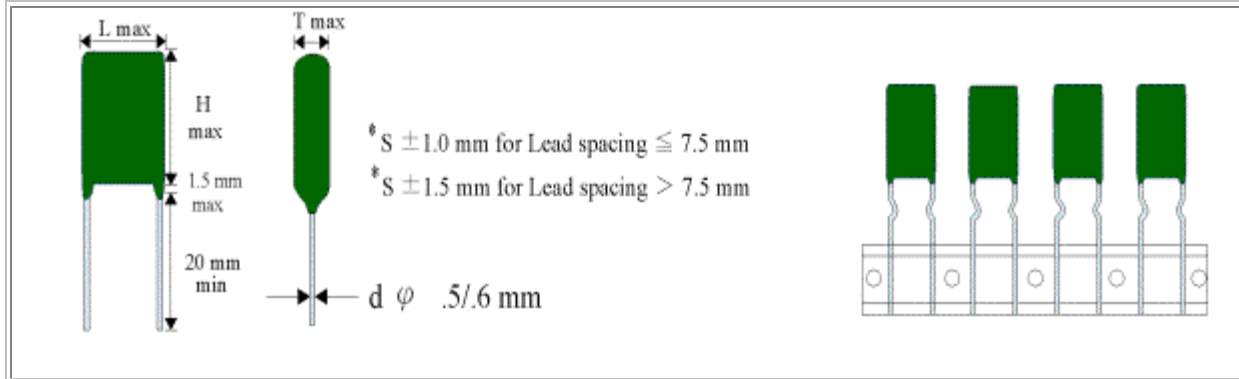
| | C | D | E | F |
|-------------|-----------------|-----------------|----------------|----------------|
| EIA Std. | 13.9-38.1mm | 76.2-355.6mm | 28.6-78.0mm | 34.5-92.0mm |
| | (0.547-1.50") | (3.0-14.0") | (1.126-3.071") | (1.374-3.626") |
| Farad Spec. | 16.0mm(0.63") | 355.0mm(13.97") | 50.0mm(1.97") | 60.0mm(2.36") |

| Capacitor Body Dia. | Pitch | Quantity Pcs / reel |
|------------------------------|-------|---------------------|
| $\varnothing 5.0 \text{ mm}$ | 5 mm | 4,000 max. |
| 5.1-7.0 mm | 10 mm | 2,000 max. |
| 7.1-9.5 mm | 10 mm | 1,000 max. |

TYPE
EOL

DIPPED POLYESTER CAPACITOR

INDUCTIVE, RADIAL LEAD WELDED
CONSTRUCTION, EPOXY COATED



| VDC | 50/100 VDC | | | |
|--------|------------|-----|------|-----|
| Mfd | L | T | H | S |
| 0.0010 | 5.8 | 3.3 | 10.0 | 3.3 |
| 0.0012 | 5.8 | 3.3 | 10.0 | 3.5 |
| 0.0015 | 5.8 | 3.3 | 10.0 | 3.5 |
| 0.0018 | 5.8 | 3.3 | 10.0 | 3.5 |
| 0.0022 | 5.8 | 3.3 | 10.0 | 3.5 |
| 0.0027 | 5.8 | 3.3 | 10.0 | 3.5 |
| 0.0033 | 6.0 | 3.3 | 10.0 | 3.5 |
| 0.0039 | 6.0 | 3.3 | 10.2 | 3.5 |
| 0.0047 | 6.5 | 3.6 | 10.2 | 3.5 |
| 0.0056 | 6.5 | 3.6 | 10.2 | 3.5 |
| 0.0068 | 6.5 | 4.0 | 10.2 | 3.5 |
| 0.0082 | 6.5 | 4.0 | 10.2 | 3.5 |
| 0.010 | 6.5 | 4.0 | 12.0 | 3.5 |
| 0.012 | 6.5 | 3.4 | 12.0 | 3.5 |
| 0.015 | 6.5 | 3.6 | 12.0 | 4.0 |
| 0.018 | 6.8 | 3.6 | 12.0 | 4.0 |

APPLICATION

Most suitable for PCB of consumer and industrial electronics at economic price

GENERAL SPECIFICATION

1. OPERATING

TEMPERATURE:

-40°CJ to 85°CJ

2. VOLTAGE RANGE:

50 and 100 VDC.

3. CAPACITANCE RANGE:

0.001 to 0.47 Mfd.

4. DIELECTRIC STRENGTH:

250% of rated voltage for

| | | | | |
|-------|------|-----|------|------|
| 0.022 | 7.2 | 4.0 | 12.4 | 5.0 |
| 0.027 | 7.2 | 4.0 | 12.4 | 5.0 |
| 0.033 | 8.0 | 4.5 | 12.7 | 5.0 |
| 0.039 | 8.0 | 5.0 | 13.0 | 6.0 |
| 0.047 | 8.7 | 5.0 | 13.2 | 6.0 |
| .056 | 8.7 | 5.0 | 13.2 | 6.0 |
| 0.068 | 9.6 | 5.5 | 13.7 | 6.0 |
| 0.082 | 10.5 | 6.0 | 13.7 | 7.5 |
| 0.100 | 11.0 | 6.5 | 14.4 | 7.5 |
| 0.120 | 12.2 | 7.4 | 14.7 | 7.5 |
| 0.150 | 10.7 | 7.5 | 19.0 | 7.5 |
| 0.180 | 11.2 | 7.5 | 19.3 | 8.5 |
| 0.220 | 12.0 | 7.4 | 19.5 | 8.5 |
| 0.270 | 13.5 | 8.0 | 19.5 | 10.0 |
| 0.330 | 14.5 | 8.0 | 19.9 | 10.0 |
| 0.390 | 16.0 | 9.0 | 20.5 | 10.0 |
| 0.470 | 17.8 | 9.7 | 22.0 | 10.0 |

5 sec.

5. CAPACITANCE

TOLERANCE:

±5%, ±10% and ±20%.

6. INSULATION

RESISTANCE:

50,000 Meg. Ohm min. at 25°CJ

7. DISSIPATION FACTOR:

.75% max. at 1KHz 25°CJ



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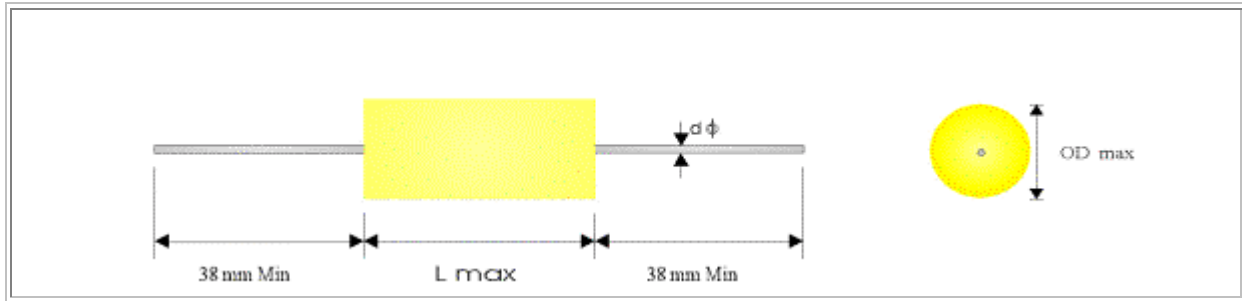


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TYPE
EOT

POLYESTER CAPACITOR

NON-INDUCTIVE, EXTENDED FOIL, WRAP AND FILL



APPLICATION

Use in telecommunication, instrumentation as signal coupling and decoupling, timing, delay and oscillator circuits.

FEATURES

- *Excellent electrical characteristics & high reliability.
- *Miniature size and light weight.
- *Available tape and reel package for auto-insertion.

| OD | dφp |
|-------------|-------|
| up to 8.0mm | 0.6mm |
| over 8.0mm | 0.8mm |

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:

-40°CJ to 85°CJ
Derate DC voltage 1.5%/°CJ above

85°CJ to 105°CJ

2. VOLTAGE RANGE:

100, 200, 400, 600 and 1000 VDC.

3. CAPACITANCE RANGE:

0.001 to 1.0 Mfd.

4. DIELECTRIC STRENGTH:

250% of rated voltage for 5 sec.

5. CAPACITANCE TOLERANCE:

±5%, ±10% and ±20%.
±1%, ±2% and ±3%

available upon request.

6. INSULATION RESISTANCE:

50,000 Meg. Ohm at 25°CJ.

7. DISSIPATION FACTOR:

.75 max. at 1KHz 25°CJ.

| VDC | 100 VDC | | 200 VDC | | 400 VDC | | 600 VDC | | 1000 VDC | |
|--------|---------|------|---------|------|---------|------|---------|------|----------|------|
| Mfd | OD | L | OD | L | OD | L | OD | L | OD | L |
| 0.0010 | 4.5 | 11.5 | 4.5 | 11.5 | 4.5 | 11.5 | 5.0 | 14.0 | 6.5 | 16.0 |
| 0.0015 | 4.5 | 11.5 | 4.5 | 11.5 | 4.5 | 11.5 | 5.0 | 14.0 | 7.0 | 16.0 |
| 0.0022 | 4.5 | 11.5 | 4.5 | 11.5 | 4.5 | 11.5 | 5.0 | 14.0 | 6.5 | 19.0 |
| 0.0033 | 4.5 | 11.5 | 4.5 | 11.5 | 5.0 | 14.0 | 5.5 | 16.0 | 7.0 | 19.0 |
| 0.0047 | 5.0 | 11.5 | 5.0 | 11.5 | 6.0 | 14.0 | 6.5 | 16.0 | 8.0 | 19.0 |
| 0.0068 | 5.0 | 11.5 | 5.0 | 11.5 | 6.0 | 16.0 | 6.5 | 19.0 | 8.0 | 23.0 |
| 0.010 | 5.0 | 11.5 | 5.0 | 11.5 | 7.0 | 16.0 | 7.5 | 19.0 | 9.0 | 23.0 |
| 0.015 | 5.5 | 11.5 | 5.5 | 11.5 | 7.0 | 19.0 | 7.5 | 23.0 | 10.0 | 23.0 |
| 0.022 | 6.0 | 14.0 | 6.5 | 14.0 | 8.0 | 19.0 | 8.5 | 23.0 | 11.5 | 23.0 |
| 0.033 | 6.5 | 14.0 | 7.0 | 14.0 | 8.0 | 23.0 | 10.0 | 23.0 | 11.5 | 32.0 |
| 0.047 | 6.5 | 16.0 | 7.0 | 16.0 | 9.0 | 23.0 | 10.0 | 32.0 | 13.0 | 32.0 |
| 0.068 | 7.5 | 16.0 | 8.0 | 16.0 | 9.5 | 27.0 | 11.5 | 32.0 | 14.0 | 37.0 |
| 0.10 | 8.5 | 19.0 | 7.5 | 23.0 | 11.0 | 27.0 | 13.5 | 32.0 | | |
| 0.15 | 8.5 | 23.0 | 9.0 | 23.0 | 12.5 | 32.0 | | | | |
| 0.22 | 9.5 | 27.0 | 10.5 | 27.0 | 14.0 | 37.0 | | | | |
| 0.33 | 10.5 | 32.0 | 11.5 | 32.0 | | | | | | |
| 0.47 | 12.5 | 32.0 | 13.5 | 32.0 | | | | | | |
| 0.68 | 14.5 | 32.0 | | | | | | | | |
| 1.0 | 17.0 | 39.0 | | | | | | | | |



BRELE International Components, Inc.
 1621 West University Parkway
 Sarasota, Florida 34243

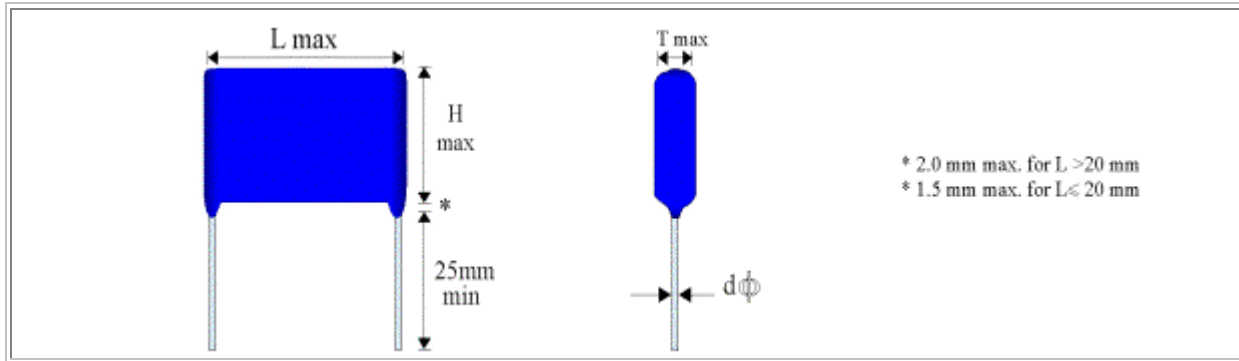


Phone: 941-355-9791
Sales: 800-237-4564
Fax: 941-355-1530
E-Mail: sales@brelintl.com
Website: www.brelintl.com
Issue: January - 2001

TYPE
EOD

POLYESTER FILM CAPACITOR

NON-INDUCTIVE, EXTENDED FOIL, EPOXY DIP COATED



APPLICATION

Widely used in TV, Radio, industrial and commercial equipments.

FEATURES

- *Low dissipation factor.
- *Low self-inductance.
- *Specials available upon request.

| | | | | | |
|----|------|------|------|------|------|
| L | 10.0 | 13.0 | 19.0 | 26.0 | 31.0 |
| S | 7.5 | 10.0 | 15.0 | 2.0 | 27.0 |
| dφ | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 |

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:
 - 40°CJ to 85°CJ
 - Derate DC Voltage 1.5%/°CJ above
 - 85°CJ to 105°CJ
2. VOLTAGE RANGE:
 - 50, 100, 200, 400 and 600 VDC.
3. CAPACITANCE RANGE:
 - 0.001 to 0.47 Mfd.
4. DIELECTRIC STRENGTH:
 - 250% of rated voltage for 5 sec.
5. CAPACITANCE TOLERANCE:
 - ±5%, ±10% and ±20%.
6. INSULATION RESISTANCE:
 - 50,000 Meg. Ohm at 25°CJ.
7. DISSIPATION FACTOR:
 - .75 max. at 1KHz 25°CJ.

| VDC | 50 VDC | | | 100 VDC | | | 200 VDC | | | 400 VDC | | | 600 VDC | | |
|--------|--------|------|------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|
| Mfd | L | T | H | L | T | H | L | T | H | L | T | H | L | T | H |
| 0.0010 | 10.0 | 5.0 | 8.0 | 13.0 | 5.0 | 9.0 | 13.0 | 5.0 | 9.0 | 13.0 | 5.0 | 9.0 | 13.0 | 5.0 | 9.5 |
| 0.0015 | 10.0 | 5.0 | 8.0 | 13.0 | 5.0 | 9.0 | 13.0 | 5.0 | 9.0 | 13.0 | 5.0 | 9.0 | 13.0 | 5.5 | 9.5 |
| 0.0022 | 10.0 | 5.0 | 8.0 | 13.0 | 5.0 | 9.0 | 13.0 | 5.0 | 9.0 | 13.0 | 5.5 | 9.0 | 13.0 | 6.0 | 9.5 |
| 0.0033 | 10.0 | 5.0 | 8.0 | 13.0 | 5.0 | 9.0 | 13.0 | 5.0 | 9.0 | 13.0 | 5.5 | 9.5 | 13.0 | 6.5 | 10.0 |
| 0.0047 | 10.0 | 5.0 | 8.5 | 13.0 | 5.0 | 9.0 | 13.0 | 5.0 | 9.0 | 13.0 | 6.0 | 10.0 | 13.0 | 7.5 | 11.5 |
| 0.0068 | 10.0 | 5.0 | 8.5 | 13.0 | 5.0 | 9.0 | 13.0 | 5.0 | 9.0 | 13.0 | 6.5 | 10.5 | 13.0 | 8.0 | 13.0 |
| 0.01 | 10.0 | 5.0 | 8.5 | 13.0 | 5.0 | 9.0 | 13.0 | 5.0 | 9.0 | 13.0 | 7.0 | 11.0 | 19.0 | 8.5 | 11.5 |
| 0.015 | 10.0 | 5.5 | 9.0 | 13.0 | 5.5 | 9.5 | 13.0 | 5.5 | 9.5 | 13.0 | 7.5 | 11.5 | 19.0 | 9.0 | 15.0 |
| 0.022 | 13.0 | 6.0 | 9.5 | 13.0 | 6.0 | 10.0 | 13.0 | 6.0 | 10.0 | 19.0 | 8.0 | 11.5 | 19.0 | 9.5 | 17.5 |
| 0.033 | 13.0 | 6.0 | 10.0 | 13.0 | 6.0 | 10.5 | 13.0 | 6.5 | 10.5 | 19.0 | 8.5 | 14.0 | 26.0 | 9.0 | 15.5 |
| 0.047 | 13.0 | 6.5 | 10.5 | 13.0 | 6.5 | 11.0 | 19.0 | 7.0 | 11.0 | 19.0 | 9.5 | 15.5 | 26.0 | 10.0 | 16.5 |
| 0.068 | 13.0 | 7.0 | 11.5 | 13.0 | 7.0 | 12.0 | 19.0 | 7.5 | 11.5 | 26.0 | 9.0 | 15.5 | 31.0 | 10.0 | 17.0 |
| 0.1 | 13.0 | 7.5 | 12.0 | 19.0 | 7.5 | 12.0 | 19.0 | 8.0 | 13.0 | 26.0 | 10.5 | 17.5 | 31.0 | 12.0 | 19.0 |
| 0.15 | 13.0 | 8.5 | 13.5 | 19.0 | 8.0 | 15.0 | 19.0 | 8.0 | 16.0 | 31.0 | 11.0 | 19.0 | | | |
| 0.22 | 19.0 | 8.5 | 15.0 | 26.0 | 7.5 | 15.0 | 26.0 | 9.0 | 16.5 | 31.0 | 13.0 | 22.0 | | | |
| 0.33 | 19.0 | 10.0 | 16.5 | 26.0 | 8.5 | 16.0 | 31.0 | 10.0 | 18.5 | | | | | | |
| 0.47 | 19.0 | 12.5 | 18.5 | 26.0 | 10.0 | 17.5 | 31.0 | 12.5 | 22.0 | | | | | | |



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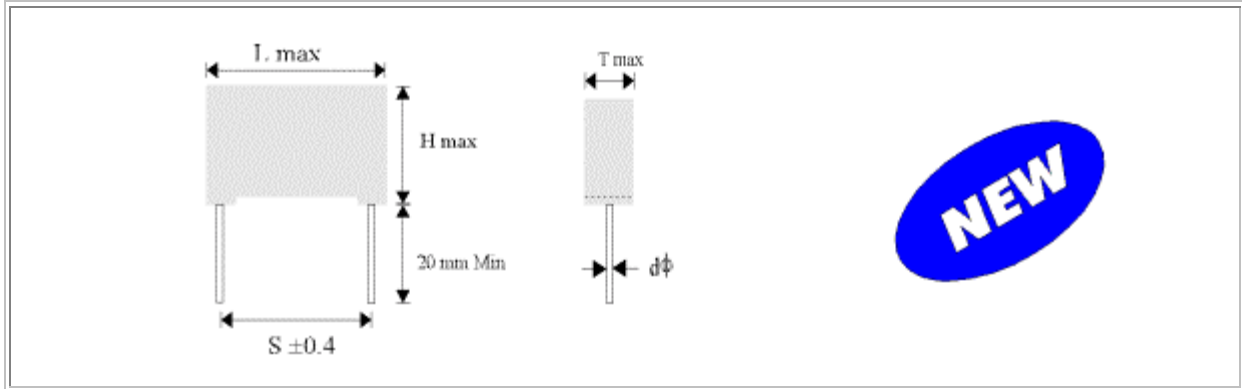


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Issue: January - 2001

TYPE
EOK

POLYESTER FILM CAPACITOR

NON-INDUCTIVE, EXTENDED FOIL,
FLAME RETARDANT ENCASED



| CASE CODE | L | T | H | S | d |
|-----------|------|------|------|------|-----|
| C1 | 13.0 | 4.0 | 9.0 | 10.0 | 0.6 |
| C2 | 13.0 | 5.0 | 11.0 | 10.0 | 0.6 |
| C3 | 13.0 | 6.0 | 12.0 | 10.0 | 0.8 |
| D1 | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| D2 | 18.0 | 6.0 | 12.0 | 15.0 | 0.8 |
| D3 | 18.0 | 7.5 | 13.5 | 15.0 | 0.8 |
| D4 | 18.0 | 8.5 | 14.5 | 15.0 | 0.8 |
| E1 | 26.5 | 6.0 | 15.0 | 22.5 | 0.8 |
| E2 | 26.5 | 7.0 | 16.5 | 22.5 | 0.8 |
| E3 | 26.5 | 8.5 | 17.0 | 22.5 | 0.8 |
| E4 | 26.5 | 10.0 | 19.0 | 22.5 | 0.8 |
| F1 | 32.0 | 11.0 | 20.0 | 27.5 | 0.8 |
| F2 | 32.0 | 13.0 | 22.0 | 27.5 | 0.8 |
| G1 | 32.0 | 15.0 | 30.0 | 27.5 | 0.8 |

APPLICATION

General purpose and pulse application.

FEATURES

- *Low self inductance and good attenuation.
- *Low dissipation factor.

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:

-40°CJ to 85°CJ

2. VOLTAGE RANGE:

100, 200, 400 and 600 VDC.

3. CAPACITANCE RANGE:

| VDC Mfd | 100V CASE CODE | 200V CASE CODE | 400V CASE CODE | 600V CASE CODE |
|------------|-------------------|-------------------|-------------------|-------------------|
| 0.001 | | | | C1 |
| 0.0015 | | | | C1 |
| 0.0022 | | | | C1 |
| 0.0033 | | | C1 | C2 |
| 0.0047 | | | C1 | C2 |
| 0.0068 | | C1 | C2 | C3 |
| 0.01 | C1 | C1 | C3 | D1 |
| 0.015 | C1 | C2 | D1 | D3 |
| 0.022 | C2 | C3 | D2 | D4 |
| 0.033 | C2 | D1 | D3 | E2 |
| 0.047 | C2 | D1 | D4 | E3 |
| 0.068 | D1 | D3 | E2 | E4 |
| 0.1 | D2 | D3 | E3 | F1 |
| 0.15 | D2 | E2 | F1 | G1 |
| 0.22 | E1 | E2 | F2 | |
| 0.33 | E2 | F1 | G1 | |
| 0.47 | E3 | F2 | | |
| 0.68 | F1 | G1 | | |
| 1.0 | F2 | | | |

0.001 to 1.0 Mfd.

4. DIELECTRIC STRENGTH:

250% of rated voltage for 5 sec. 25¢J.

5. CAPACITANCE TOLERANCE:

±5%, ±10% and ±20%.

6. INSULATION RESISTANCE:

50,000 Meg. Ohm at 25¢J.

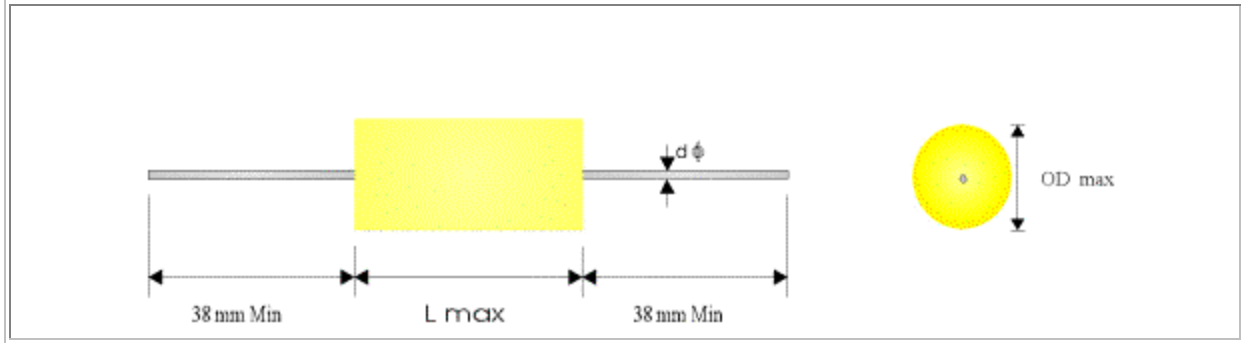
7. DISSIPATION FACTOR:

.75 max. at 1KHz 25¢J.

TYPE
EMT

METALLIZED POLYESTER CAPACITOR

NON-INDUCTIVE, WRAP & FILL WITH POLYESTER
TAPE & EPOXY RESIN



| OD | d φ |
|-------------|-------|
| up to 8.0mm | 0.6mm |
| over 8.0mm | 0.8mm |

APPLICATION

Analog computer reference and low frequency tuned circuit. For communication and electronic industries.

Maximum pulse rise time (dv/dt) V / μ sec

| Lmax VDC | ≤ | 19.0 | 25.0 | 32.0 | 37.0 | 43.0 | 47.0 |
|-------------|------|------|------|------|------|------|------|
| 100 | 5.0 | 3.0 | 2.0 | 1.0 | 0.9 | 0.8 | 0.7 |
| 250 | 10.0 | 7.0 | 4.0 | 2.5 | 1.5 | 1.0 | 0.8 |
| 400 | 13.5 | 10.0 | 6.5 | 4.0 | 3.0 | 1.5 | --- |
| 630 | 20.0 | 15.0 | 10.0 | 6.0 | --- | --- | 1.8 |

FEATURES

- *High reliability.
- *Miniature size and light weight.
- *Available tape and reel package for auto-insertion.

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:
-40°C to 85°C

| VDC | 100 VDC | | 250 VDC | | 400 VDC | | 630 VDC | |
|-------|---------|------|---------|------|---------|------|---------|------|
| Mfd | OD | L | OD | L | OD | L | OD | L |
| 0.010 | 5.0 | 10.5 | 5.0 | 10.5 | 5.5 | 14.0 | 6.0 | 14.0 |
| 0.015 | 5.0 | 10.5 | 5.0 | 10.5 | 5.5 | 14.0 | 6.5 | 14.0 |
| 0.022 | 5.0 | 10.5 | 5.0 | 10.5 | 5.5 | 14.0 | 7.0 | 14.0 |
| 0.033 | 5.0 | 10.5 | 5.0 | 10.5 | 6.0 | 14.0 | 6.5 | 19.0 |
| 0.047 | 5.5 | 10.5 | 5.5 | 14.0 | 7.0 | 14.0 | 7.5 | 19.0 |
| 0.068 | 5.5 | 10.5 | 5.5 | 14.0 | 6.5 | 19.0 | 8.5 | 19.0 |
| 0.100 | 6.0 | 10.5 | 6.0 | 14.0 | 7.5 | 19.0 | 9.5 | 25.0 |
| 0.150 | 6.0 | 14.0 | 7.0 | 14.0 | 8.5 | 19.0 | 10.5 | 25.0 |
| 0.220 | 6.5 | 14.0 | 7.0 | 19.0 | 8.5 | 25.0 | 10.5 | 32.0 |
| 0.330 | 7.5 | 14.0 | 8.0 | 19.0 | 10.0 | 25.0 | 11.5 | 32.0 |
| 0.470 | 7.0 | 19.0 | 9.5 | 19.0 | 11.0 | 32.0 | 14.0 | 32.0 |
| 0.680 | 8.0 | 19.0 | 9.5 | 25.0 | 13.0 | 32.0 | 17.0 | 32.0 |
| 1.0 | 9.5 | 19.0 | 10.5 | 25.0 | 15.5 | 32.0 | 20.5 | 32.0 |
| 1.5 | 9.5 | 25.0 | 11.5 | 32.0 | 17.5 | 32.0 | 19.5 | 47.0 |
| 2.2 | 11.5 | 25.0 | 13.5 | 32.0 | 18.5 | 37.0 | | |
| 3.3 | 13.5 | 25.0 | 16.5 | 32.0 | 21.5 | 43.0 | | |
| 4.7 | 14.0 | 32.0 | 18.0 | 37.0 | 25.5 | 43.0 | | |
| 6.8 | 17.0 | 32.0 | 19.5 | 43.0 | | | | |
| 8.2 | 18.0 | 32.0 | 20.5 | 47.0 | | | | |
| 10.0 | 19.5 | 32.0 | 22.5 | 47.0 | | | | |
| 12.0 | 20.5 | 37.0 | | | | | | |
| 15.0 | 21.0 | 47.0 | | | | | | |
| 18.0 | 24.0 | 47.0 | | | | | | |

Derate DC voltage 1.5%/
°C

85°C to 105°C

2.VOLTAGE RANGE:

100, 250, 400 and 630 VDC.

3.CAPACITANCE RANGE:

0.01 to 18.0 Mfd.

4.DIELECTRIC

STRENGTH:

160% of rated voltage for 2 sec.

5.CAPACITANCE

TOLERANCE:

±5%, ±10% and ±20%.

±1% and ±2% available

upon request.

6.INSULATION

RESISTANCE:

c < .33Mfd, R ≥ 15,000

Meg. Ohm at 25°C.

c ≥ .33Mfd, RC ≥ 5,000

Meg. Ohm × Mfd.

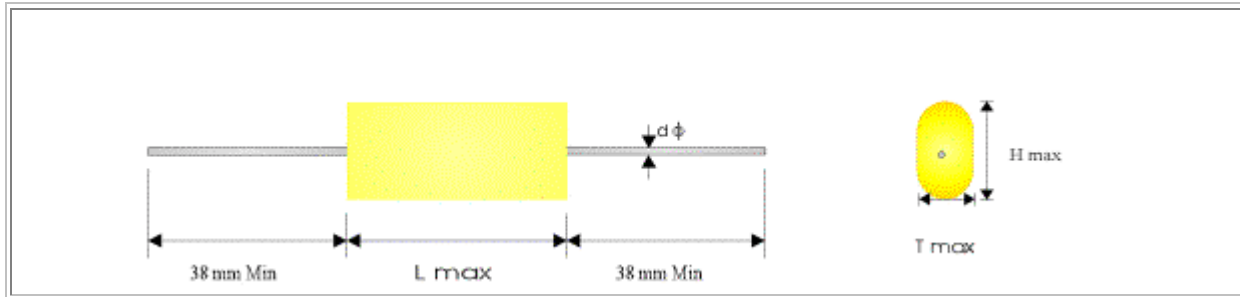
7.DISSIPATION FACTOR:

1.0% max. at 1KHz 25°C.

TYPE
EMF

METALLIZED POLYESTER CAPACITOR

AXIAL LEAD, WRAP & FILL, FLAT OVAL SHAPE



APPLICATION

*Widely used in communication and industrial equipments as critical coupling, by-passing and blocking.

FEATURES

*High reliability, high capacitance, high moisture resistance, and excellent electrical characteristics.

Maximum pulse time (dv / dt) V / μ sec

| Lmax VDC | 14.0 | 19.0 | 25.0 | 32.0 | 37.0 | 43.0 | 47.0 |
|-------------|------|------|------|------|------|------|------|
| 100 | 5.0 | 3.0 | 2.0 | 1.0 | 0.9 | 0.8 | 0.7 |
| 250 | 10.0 | 7.0 | 4.0 | 2.5 | 1.5 | 1.0 | 0.8 |
| 400 | --- | 10.0 | 6.5 | 4.0 | 3.0 | 1.5 | 1.0 |
| 630 | --- | --- | 10.0 | 6.0 | --- | --- | 1.8 |

| | | | | | | | |
|-----|------|------|------|------|------|------|------|
| L | 14.0 | 19.0 | 25.0 | 32.0 | 37.0 | 43.0 | 47.0 |
| d φ | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 |

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:

-40°C to 85°C

Derate DC voltage 1.5%/°C

above

85°C to 105°C

2. VOLTAGE RANGE:

100, 250, 400 and 630 VDC.

3. CAPACITANCE RANGE:

0.1 to 18.0 Mfd.

4. DIELECTRIC STRENGTH:

160% of rated voltage for 2 sec.

5. CAPACITANCE TOLERANCE:

±5%, ±10% and ±20%.

6. INSULATION RESISTANCE:

c < .33Mfd, R ≥ 15,000 Meg. Ohm at 25°C.

c ≥ .33Mfd, R_c ≥ 5,000 Meg. Ohm × Mfd.

7. DISSIPATION FACTOR:

1.0% max. at 1KHz 25°C.

| VDC | 100 VDC | | | 250 VDC | | | 400 VDC | | | 630 VDC | | |
|------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|
| Mfd | L | T | H | L | T | H | L | T | H | L | T | H |
| 0.10 | 14.0 | 4.5 | 8.0 | 14.0 | 4.5 | 8.0 | 19.0 | 5.0 | 10.0 | 25.0 | 6.5 | 11.5 |
| 0.15 | 14.0 | 4.5 | 8.0 | 14.0 | 5.0 | 9.0 | 19.0 | 6.5 | 11.0 | 25.0 | 6.5 | 13.0 |
| 0.22 | 14.0 | 5.0 | 8.5 | 19.0 | 5.0 | 9.0 | 25.0 | 6.5 | 12.0 | 25.0 | 9.0 | 15.0 |
| 0.33 | 19.0 | 4.5 | 8.0 | 19.0 | 5.5 | 10.5 | 25.0 | 7.5 | 13.5 | 32.0 | 9.0 | 15.0 |
| 0.47 | 19.0 | 5.0 | 9.0 | 25.0 | 5.5 | 11.0 | 32.0 | 7.5 | 14.5 | 32.0 | 12.0 | 17.0 |
| 0.68 | 19.0 | 5.5 | 10.5 | 25.0 | 6.5 | 12.5 | 32.0 | 9.0 | 16.0 | 32.0 | 15.0 | 20.5 |
| 1.0 | 19.0 | 6.0 | 12.0 | 25.0 | 7.5 | 13.5 | 32.0 | 10.5 | 18.5 | 7.0 | 14.0 | 20.0 |
| 1.5 | 25.0 | 7.0 | 12.5 | 32.0 | 8.5 | 15.0 | 37.0 | 12.0 | 22.0 | 47.0 | 16.5 | 23.5 |
| 2.2 | 25.0 | 8.0 | 14.0 | 32.0 | 10.0 | 16.5 | 43.0 | 13.5 | 23.5 | 47.0 | 17.5 | 27.0 |
| 3.3 | 25.0 | 10.0 | 16.5 | 37.0 | 10.5 | 20.5 | 47.0 | 15.0 | 23.5 | 47.0 | 21.0 | 34.0 |
| 4.7 | 32.0 | 10.0 | 18.0 | 43.0 | 11.0 | 21.0 | 47.0 | 18.0 | 27.0 | | | |
| 6.8 | 32.0 | 11.0 | 21.0 | 47.0 | 14.0 | 23.0 | 47.0 | 22.0 | 34.0 | | | |
| 10.0 | 37.0 | 13.0 | 24.0 | 47.0 | 15.5 | 27.0 | | | | | | |
| 12.0 | 43.0 | 13.5 | 26.0 | 47.0 | 17.5 | 31.0 | | | | | | |
| 15.0 | 47.0 | 15.0 | 28.0 | | | | | | | | | |
| 18.0 | 47.0 | 18.0 | 31.0 | | | | | | | | | |



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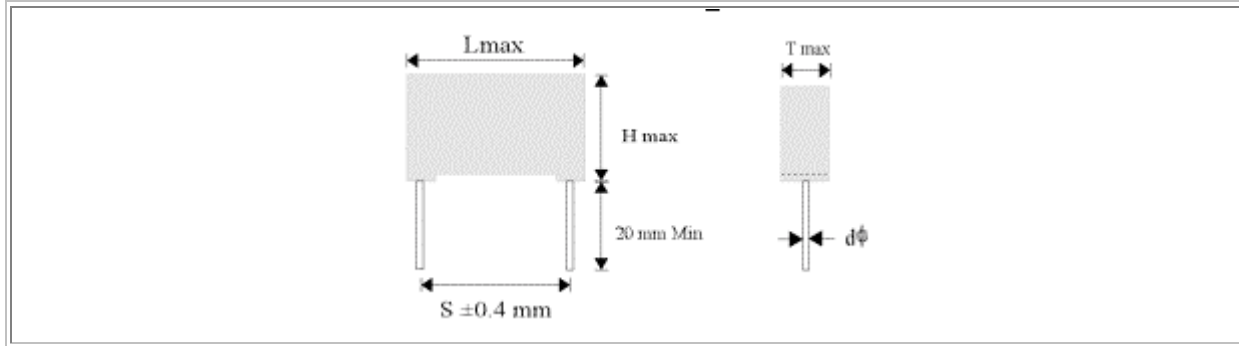


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Issue: January - 2001

TYPE
EMK

METALLIZED POLYESTER CAPACITOR

NON-INDUCTIVE, LOW SELF INDUCTANCE,
FLAME RETARDANT ENCASED



| CASE CODE | L | T | H | S | dφ |
|-----------|------|------|------|------|-----|
| B1 | 10.5 | 3.5 | 6.5 | 7.5 | 0.6 |
| B2 | 10.5 | 4.0 | 9.0 | 7.5 | 0.6 |
| C1 | 13.0 | 4.0 | 9.0 | 10.0 | 0.8 |
| C2 | 13.0 | 5.0 | 11.0 | 10.0 | 0.8 |
| C3 | 13.0 | 6.0 | 12.0 | 10.0 | 0.8 |
| D1 | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| D2 | 18.0 | 6.0 | 12.0 | 15.0 | 0.8 |
| D3 | 18.0 | 7.5 | 13.5 | 15.0 | 0.8 |
| D4 | 18.0 | 8.5 | 14.5 | 15.0 | 0.8 |
| E1 | 26.5 | 6.0 | 15.0 | 22.5 | 0.8 |
| E2 | 26.5 | 7.0 | 16.5 | 22.5 | 0.8 |
| E3 | 26.5 | 8.5 | 17.0 | 22.5 | 0.8 |
| E4 | 26.5 | 10.0 | 19.0 | 22.5 | 0.8 |
| F1 | 32.0 | 11.0 | 20.0 | 27.5 | 0.8 |
| F2 | 32.0 | 13.0 | 22.0 | 27.5 | 0.8 |
| G1 | 32.0 | 15.0 | 30.0 | 27.5 | 0.8 |

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:

-40°C to 85°C

2. VOLTAGE RANGE:

100, 250, 400 and 630 VDC.

3. CAPACITANCE RANGE:

0.01 to 6.8 Mfd.

4. DIELECTRIC STRENGTH:

160% of rated voltage for 2 sec.

5. CAPACITANCE TOLERANCE:

±5%, ±10% and ±20%.

6. INSULATION RESISTANCE:

c < .33Mfd, R ≥ 15,000 Meg. Ohm at 25°C.

c ≥ .33Mfd, RC ≥ 5,000 Meg. Ohm × Mfd.

7. DISSIPATION FACTOR:

1.0% max. at 1KHz 25°C.

| Mfd | VDC CASE CODE | 100VDC CASE CODE | 250VDC CASE CODE | 400VDC CASE CODE | 630VDC CASE CODE |
|-------|------------------|---------------------|---------------------|---------------------|---------------------|
| 0.010 | B1 | B1/C1 | C1 | C2 | |
| 0.015 | B1 | B1/C1 | C1 | C2 | |
| 0.022 | B1 | B2/C1 | C1 | C2 | |
| 0.033 | B1 | B2/C1 | C2 | C1 | |
| 0.047 | B1 | B2/C1 | C3 | C2 | |
| 0.068 | B2 | C1 | D1 | D3 | |
| 0.10 | B2/C1 | C2 | D2 | E1 | |
| 0.15 | B2/C1 | D1 | D3 | E2 | |
| 0.22 | C2 | D1 | E1 | E3 | |
| 0.33 | C3/D1 | D2 | E2 | F1 | |
| 0.47 | D1 | E1 | E3 | F1 | |
| 0.68 | D2 | E2 | F1 | F2 | |
| 1.0 | D3 | E3 | F1 | | |
| 1.5 | E2 | F1 | F2 | | |
| 2.2 | E3 | F1 | | | |
| 3.3 | E4 | F2 | | | |
| 4.7 | F1 | G1 | | | |
| 6.8 | F2 | | | | |

FEATURES

- *Uniform shape and high density packaging.
- *Case impervious to known solvents.
- *Available on tape for 5mm lead spacing for auto-insertion.
- *Other lead spacing available on request.

Maximum pulse rise time (dv/dt)V/ μ sec

| VDC ^S | 5.0 | 7.5 | 10.0 | 15.0 | 22.5 | 27.5 |
|------------------|-----|------|------|------|------|------|
| 100 | 8.0 | 6.0 | 6.0 | 3.0 | 2.0 | 1.0 |
| 250 | | 15.0 | 11.0 | 7.0 | 4.0 | 3.0 |
| 400 | | | 20.0 | 10.0 | 5.5 | 5.0 |
| 630 | | | 30.0 | 15.0 | 8.0 | 7.0 |



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TYPE
ESK

METALLIZED POLYESTER CAPACITOR

NON-INDUCTIVE, MINIATURE SIZE, FLAME RETARDANT ENCASED



FEATURES

- * Miniature size and light weight.
- * Available on tape for 5mm lead apacing for automatic insertion.

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:

-40°C to 85°C

2. VOLTAGE RANGE:

50/63, 100 and 250 VDC.

3. CAPACITANCE RANGE:

0.001 to 1.0 Mfd. for 63 VDC.

0.001 to 0.33 Mfd. for 100 VDC.

0.001 to 0.1 Mfd. for 250 VDC.

4. DIELECTRIC STRENGTH:

160% of rated voltage for 2 sec.

5. CAPACITANCE TOLERANCE:

±5%, ±10% and ±20%.

6. INSULATION RESISTANCE:

$c < .33\text{Mfd}$, $R \geq 15,000$ Meg. Ohm at 25°C.

$c \geq .33\text{Mfd}$, $RC \geq 5,000$ Meg. Ohm \times Mfd.

7. DISSIPATION FACTOR:

1.0% max. at 1KHz 25°C.



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Issue: January - 2001

| VDC | 50/63 VDC | | | 100 VDC | | | 250 VDC | | |
|--------|-----------|-----|------|---------|-----|-----|---------|-----|------|
| Mfd | L | T | H | L | T | H | L | T | H |
| 0.0010 | 7.5 | 2.5 | 6.5 | 7.5 | 2.5 | 6.5 | 7.5 | 2.5 | 6.5 |
| 0.0015 | 7.5 | 2.5 | 6.5 | 7.5 | 2.5 | 6.5 | 7.5 | 2.5 | 6.5 |
| 0.0022 | 7.5 | 2.5 | 6.5 | 7.5 | 2.5 | 6.5 | 7.5 | 2.5 | 6.5 |
| 0.0033 | 7.5 | 2.5 | 6.5 | 7.5 | 2.5 | 6.5 | 7.5 | 2.5 | 6.5 |
| 0.0047 | 7.5 | 2.5 | 6.5 | 7.5 | 2.5 | 6.5 | 7.5 | 2.5 | 6.5 |
| 0.0068 | 7.5 | 2.5 | 6.5 | 7.5 | 2.5 | 6.5 | 7.5 | 2.5 | 6.5 |
| 0.010 | 7.5 | 2.5 | 6.5 | 7.5 | 2.5 | 6.5 | 7.5 | 2.5 | 6.5 |
| 0.015 | 7.5 | 2.5 | 6.5 | 7.5 | 2.5 | 6.5 | 7.5 | 2.5 | 6.5 |
| 0.022 | 7.5 | 2.5 | 6.5 | 7.5 | 2.5 | 6.5 | 7.5 | 3.5 | 8.0 |
| 0.033 | 7.5 | 2.5 | 6.5 | 7.5 | 2.5 | 6.5 | 7.5 | 3.5 | 8.0 |
| 0.047 | 7.5 | 2.5 | 6.5 | 7.5 | 2.5 | 6.5 | 7.5 | 5.0 | 9.5 |
| 0.068 | 7.5 | 2.5 | 6.5 | 7.5 | 2.5 | 6.5 | 7.5 | 5.0 | 9.5 |
| 0.10 | 7.5 | 2.5 | 6.5 | 7.5 | 2.5 | 6.5 | 7.5 | 6.0 | 12.0 |
| 0.15 | 7.5 | 3.5 | 8.0 | 7.5 | 5.0 | 8.0 | | | |
| 0.22 | 7.5 | 3.5 | 8.0 | 7.5 | 5.0 | 8.0 | | | |
| 0.33 | 7.5 | 3.5 | 8.0 | 7.5 | 5.0 | 8.0 | | | |
| 0.47 | 7.5 | 5.0 | 8.0 | | | | | | |
| 0.68 | 7.5 | 6.0 | 10.0 | | | | | | |
| 1.00 | 7.5 | 5.0 | 8.0 | | | | | | |



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 Sarasota, Florida 34243

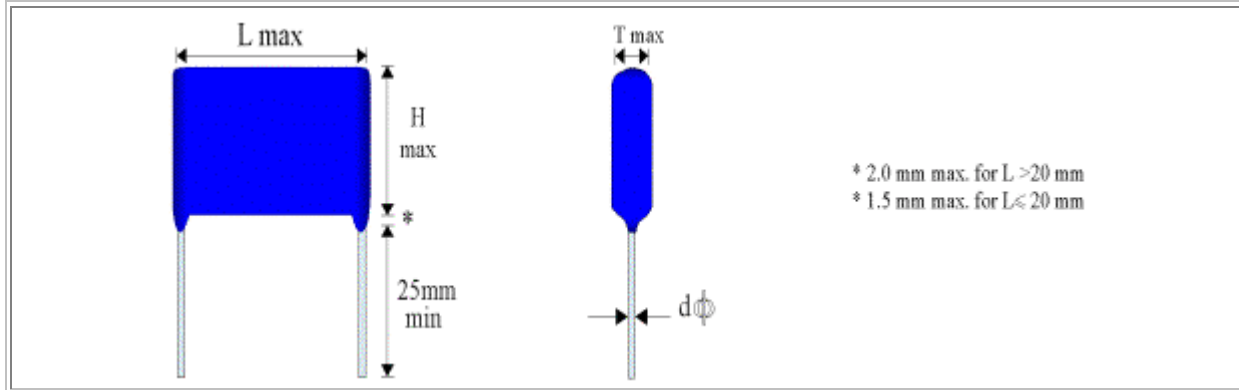


Phone: 941-355-9791
Sales: 800-237-4564
Fax: 941-355-1530
E-Mail: sales@brelintl.com
Website: www.brelintl.com
Issue: January - 2001

TYPE
EMD

METALLIZED POLYESTER CAPACITOR

NON-INDUCTIVE, EPOXY DIP COATED,
HIGH MOISTURE RESISTANCE



APPLICATION

General purpose.

Maximum pulse time (dv / dt) V / μ sec

| VDC | S | 10.0 | 15.0 | 22.5 | 27.5 |
|-----|---|------|------|------|------|
| 100 | | 6.0 | 3.0 | 2.0 | 1.0 |
| 250 | | 11.0 | 7.0 | 4.0 | 3.0 |
| 400 | | 20.0 | 10.0 | 5.5 | 5.0 |
| 630 | | 30.0 | 15.0 | 8.0 | 7.0 |

| | | | | |
|----------|------|------|------|------|
| L | 12.5 | 18.0 | 26.0 | 31.0 |
| S | 10.0 | 15.0 | 22.5 | 27.5 |
| d ϕ | 0.6 | 0.8 | 0.8 | 0.8 |

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:

-40°C to 85°C

Derate DC voltage 1.5%/°C

above

85°C to 105°C

2. VOLTAGE RANGE:

100, 250, 400 and 630 VDC.

3. CAPACITANCE RANGE:

0.01 to 6.8 Mfd.

4. DIELECTRIC STRENGTH:

160% of rated voltage for 2 sec.

5. CAPACITANCE TOLERANCE:

$\pm 5\%$, $\pm 10\%$ and $\pm 20\%$.

6. INSULATION RESISTANCE:

c < .33Mfd, R \geq 15,000 Meg. Ohm at 25°C.

c \geq .33Mfd, R_c \geq 5,000 Meg. Ohm

× Mfd.

7. DISSIPATION FACTOR:

1.0% max. at 1KHz 25°C.

| VDC | 100 VDC | | | 250 VDC | | | 400 VDC | | | 630 VDC | | |
|-------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|
| Mfd | L | T | H | L | T | H | L | T | H | L | T | H |
| 0.010 | | | | | | | | | | 12.5 | 5.5 | 10.0 |
| 0.015 | | | | | | | 12.5 | 5.0 | 9.5 | 12.5 | 6.0 | 10.0 |
| 0.022 | | | | | | | 12.5 | 5.0 | 9.5 | 12.5 | 6.5 | 11.0 |
| 0.033 | | | | 12.5 | 5.0 | 9.0 | 12.5 | 5.5 | 10.5 | 18.0 | 6.0 | 11.0 |
| 0.047 | | | | 12.5 | 5.0 | 9.5 | 12.5 | 6.0 | 10.5 | 18.0 | 6.5 | 11.5 |
| 0.068 | | | | 12.5 | 5.0 | 9.5 | 18.0 | 6.0 | 10.5 | 18.0 | 7.0 | 12.5 |
| 0.10 | 12.5 | 5.0 | 9.5 | 12.5 | 5.5 | 10.0 | 18.0 | 6.5 | 11.5 | 26.0 | 7.0 | 13.0 |
| 0.15 | 12.5 | 5.0 | 10.0 | 18.0 | 5.5 | 10.5 | 26.0 | 6.0 | 12.5 | 26.0 | 8.5 | 14.0 |
| 0.22 | 12.5 | 5.5 | 10.0 | 18.0 | 6.5 | 11.5 | 26.0 | 7.0 | 13.5 | 26.0 | 10.0 | 16.5 |
| 0.33 | 18.0 | 5.5 | 10.5 | 18.0 | 7.0 | 12.5 | 26.0 | 8.5 | 15.5 | 31.0 | 10.5 | 17.5 |
| 0.47 | 18.0 | 6.0 | 11.5 | 26.0 | 7.0 | 12.5 | 26.0 | 9.5 | 18.0 | 31.0 | 12.0 | 19.5 |
| 0.68 | 18.0 | 6.5 | 12.0 | 26.0 | 8.0 | 14.5 | 31.0 | 10.0 | 17.5 | 31.0 | 15.0 | 22.5 |
| 1.0 | 18.0 | 7.5 | 14.0 | 26.0 | 9.0 | 16.0 | 31.0 | 12.0 | 20.0 | 31.0 | 17.5 | 28.0 |
| 1.5 | 26.0 | 7.5 | 14.5 | 31.0 | 9.5 | 17.0 | | | | | | |
| 2.2 | 26.0 | 9.0 | 16.0 | 31.0 | 11.5 | 19.0 | | | | | | |
| 3.3 | 26.0 | 11.0 | 19.0 | 31.0 | 14.0 | 23.0 | | | | | | |
| 4.7 | 31.0 | 12.0 | 23.0 | | | | | | | | | |
| 6.8 | 31.0 | 14.0 | 25.0 | | | | | | | | | |



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 Sarasota, Florida 34243

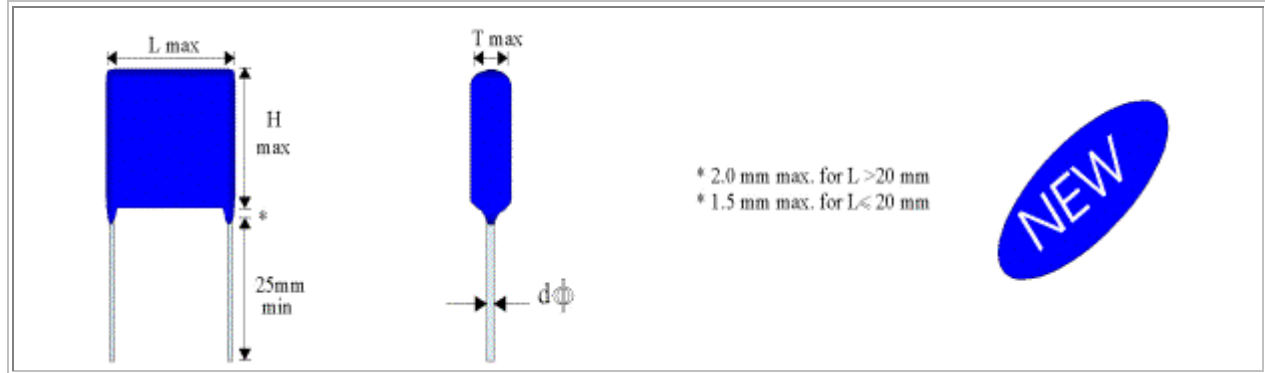


Phone: 941-355-9791
Sales: 800-237-4564
Fax: 941-355-1530
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TYPE
END

METALLIZED POLYESTER CAPACITOR

NON-INDUCTIVE, MINIATURE SIZE, EPOXY DIP COATED,
HIGH MOISTURE RESISTANCE



APPLICATION

This type capacitor can be used in blocking, by passing, filtering, timing, interference suppression, low pulse applications.

FEATURES

- *This series is using special metallized polyester film, which makes the capacitor in small size.
- *Self-healing property.
- *Coated with flame retardant epoxy.

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:

-40°C to 85°C

2. VOLTAGE RANGE:

100, 250, 400 and 630 VDC.

3. CAPACITANCE RANGE:

0.01 to 10.0 Mfd.

4. DIELECTRIC STRENGTH:

160% of rated voltage for 2 sec.

5. CAPACITANCE TOLERANCE:

±5%, ±10% and ±20%.

6. INSULATION RESISTANCE:

c < .33Mfd, R ≥ 9,000 Meg. Ohm at 25°C.

c ≥ .33Mfd, R_c ≥ 3,000 Meg. Ohm × Mfd.

7. DISSIPATION FACTOR:

1.0% max. at 1KHz 25°C.

Maximum pulse time (dv/dt)V/μsec

| VDC | 100 VDC | | | 250 VDC | | | 400 VDC | | | 630 VDC | | |
|-------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|
| Mfd | L | T | H | L | T | H | L | T | H | L | T | H |
| 0.01 | | | | | | | | | | 12.5 | 5.0 | 8.5 |
| 0.015 | | | | | | | | | | 12.5 | 5.5 | 8.5 |
| 0.018 | | | | | | | | | | 12.5 | 5.5 | 10.5 |
| 0.022 | | | | | | | | | | 12.5 | 5.5 | 10.5 |
| 0.033 | | | | | | | | | | 12.5 | 6.5 | 11.0 |
| 0.047 | | | | | | | 12.5 | 5.5 | 8.5 | 12.5 | 7.5 | 12.0 |
| 0.056 | | | | | | | 12.5 | 5.5 | 9.5 | 18.5 | 6.0 | 11.0 |
| 0.068 | | | | | | | 12.5 | 6.0 | 10.0 | 18.5 | 6.5 | 11.5 |
| 0.082 | | | | | | | 12.5 | 6.5 | 10.5 | 18.5 | 7.0 | 12.0 |
| 0.1 | | | | | | | 12.5 | 7.0 | 11.0 | 18.5 | 7.0 | 13.5 |
| 0.15 | | | | | | | 18.5 | 5.5 | 12.0 | 18.5 | 8.0 | 16.0 |
| 0.18 | | | | 12.5 | 5.0 | 10.5 | 18.5 | 5.5 | 12.5 | 18.5 | 8.0 | 16.0 |
| 0.22 | | | | 12.5 | 6.5 | 10.5 | 18.5 | 6.5 | 13.0 | 18.5 | 9.5 | 17.5 |
| 0.33 | | | | 12.5 | 7.0 | 12.0 | 18.5 | 7.5 | 14.0 | 26.0 | 8.5 | 18.0 |
| 0.47 | | | | 18.5 | 6.0 | 12.5 | 18.5 | 8.5 | 16.5 | 26.0 | 10.5 | 18.5 |
| 0.56 | 12.5 | 6.0 | 10.5 | 18.5 | 6.5 | 13.0 | 26.0 | 7.0 | 15.0 | 26.0 | 11.0 | 20.5 |
| 0.68 | 12.5 | 6.5 | 10.5 | 18.5 | 7.0 | 13.5 | 26.0 | 7.5 | 17.0 | 26.0 | 12.0 | 22.0 |
| 0.82 | 12.5 | 6.5 | 11.5 | 18.5 | 7.0 | 15.0 | 26.0 | 8.0 | 17.5 | 31.0 | 12.0 | 20.5 |
| 1.0 | 12.5 | 7.0 | 12.0 | 18.5 | 8.0 | 16.0 | 26.0 | 8.5 | 18.5 | 31.0 | 13.5 | 22.0 |
| 1.5 | 18.5 | 6.5 | 13.0 | 18.5 | 9.5 | 17.5 | 31.0 | 9.5 | 19.0 | 31.0 | 16.5 | 25.0 |
| 1.8 | 18.5 | 6.5 | 14.5 | 26.0 | 7.5 | 15.5 | 31.0 | 11.0 | 20.5 | 31.0 | 17.0 | 27.0 |
| 2.2 | 18.5 | 7.5 | 15.5 | 26.0 | 9.0 | 17.5 | 31.0 | 11.5 | 21.5 | 31.0 | 20.0 | 29.0 |
| 2.7 | 18.5 | 8.0 | 16.0 | 26.0 | 10.5 | 17.5 | | | | | | |
| 3.3 | 18.5 | 9.0 | 16.5 | 26.0 | 11.0 | 19.5 | | | | | | |
| 4.7 | 26.0 | 8.0 | 16.5 | 26.0 | 12.5 | 22.5 | | | | | | |
| 5.6 | 26.0 | 9.0 | 17.0 | 31.0 | 13.0 | 21.5 | | | | | | |
| 6.8 | 26.0 | 9.5 | 17.5 | 31.0 | 14.0 | 22.5 | | | | | | |
| 8.2 | 26.0 | 10.0 | 20.0 | 31.0 | 15.5 | 24.0 | | | | | | |
| 10 | 26.0 | 11.0 | 21.0 | 31.0 | 16.0 | 26.5 | | | | | | |

| VDC | S | 10.0 | 15.0 | 22.5 | 27.5 |
|-----|---|------|------|------|------|
| 100 | | 6.0 | 3.0 | 2.0 | 1.0 |
| 250 | | 11.0 | 7.0 | 5.0 | 3.0 |
| 400 | | 20.0 | 10.0 | 8.0 | 5.0 |
| 630 | | 30.0 | 15.0 | 12.0 | 7.0 |

| | | | | |
|----|------|------|------|------|
| L | 12.5 | 18.5 | 26.0 | 31.0 |
| S | 10.0 | 15.0 | 22.5 | 27.5 |
| dφ | 0.6 | 0.8 | 0.8 | 0.8 |



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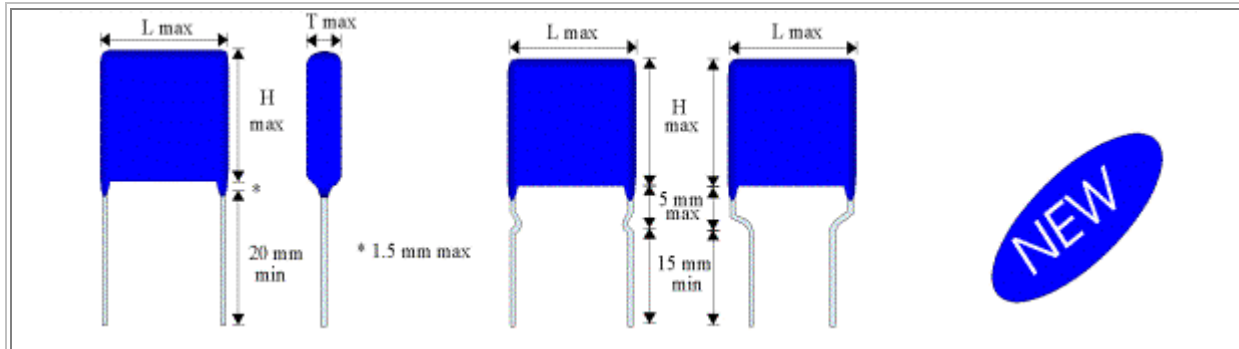


Phone: 941-355-9791
Sales: 800-237-4564
Fax: 941-355-1530
E-Mail: sales@brelintl.com
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Issue: January - 2001

TYPE
MND

METALLIZED POLYESTER CAPACITOR

NON-INDUCTIVE, EPOXY DIP COATED, MINIATURE SIZE



APPLICATION

Use in blocking, by passing, filtering, timing and energy reservoir application

FEATURES

- *Low inductive wound cell of metallized film.
- *Self-healing property.

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:

-40°C to 85°C

2. VOLTAGE RANGE:

63, 100, 250 and 400 VDC.

3. CAPACITANCE RANGE:

0.0033 to 1.0 Mfd.

4. DIELECTRIC STRENGTH:

160% of rated voltage for 2 sec.

5. CAPACITANCE TOLERANCE:

±5% and ±10%.

6. INSULATION RESISTANCE:

$c < .33\text{Mfd}$, $R \geq 4,500$ Meg. Ohm at 25°C.

$c \geq .33\text{Mfd}$, $RC \geq 1,500$ Meg. Ohm

× Mfd.

7. DISSIPATION FACTOR:

1.0% max. at 1KHz 25°C.

| Pitch | 5mm Pitch | | | | | | 7.5mm Pitch | | | | | | | | | | | |
|--------|-----------|-----|------|---------|-----|-----|-------------|-----|------|---------|-----|------|---------|-----|------|---------|-----|------|
| VDC | 63 VDC | | | 100 VDC | | | 63 VDC | | | 100 VDC | | | 250 VDC | | | 400 VDC | | |
| Mfd | L | T | H | L | T | H | L | T | H | L | T | H | L | T | H | L | T | H |
| 0.0033 | | | | | | | | | | | | | | | | 10.5 | 4.0 | 8.5 |
| 0.0047 | | | | | | | | | | | | | | | | 10.5 | 4.0 | 8.5 |
| 0.0056 | | | | | | | | | | | | | | | | 10.5 | 4.0 | 8.5 |
| 0.0068 | | | | | | | | | | | | | | | | 10.5 | 4.0 | 8.5 |
| 0.0082 | | | | | | | | | | | | | | | | 10.5 | 4.0 | 8.5 |
| 0.01 | | | | 7.5 | 3.5 | 7.5 | | | | | | | | | | 10.5 | 4.0 | 8.5 |
| 0.015 | | | | 7.5 | 3.5 | 7.5 | | | | | | | | | | 10.5 | 4.0 | 8.5 |
| 0.018 | | | | 7.5 | 3.5 | 7.5 | | | | | | | 10.5 | 4.5 | 8.5 | 10.5 | 4.5 | 10.0 |
| 0.022 | | | | 7.5 | 3.5 | 7.5 | | | | | | | 10.5 | 5.0 | 8.5 | 10.5 | 5.0 | 10.5 |
| 0.033 | | | | 7.5 | 3.5 | 7.5 | | | | | | | 10.5 | 5.0 | 8.5 | 10.5 | 6.0 | 11.5 |
| 0.047 | 7.5 | 3.5 | 7.5 | 7.5 | 3.5 | 7.5 | | | | 10.5 | 4.0 | 8.0 | 10.5 | 5.0 | 8.5 | 10.5 | 6.5 | 12.0 |
| 0.056 | 7.5 | 3.5 | 7.5 | 7.5 | 3.5 | 7.5 | | | | 10.5 | 4.0 | 8.0 | 10.5 | 5.0 | 8.5 | | | |
| 0.068 | 7.5 | 3.5 | 7.5 | 7.5 | 3.5 | 7.5 | | | | 10.5 | 4.0 | 8.0 | 10.5 | 5.0 | 8.5 | | | |
| 0.082 | 7.5 | 3.5 | 7.5 | 7.5 | 4.0 | 8.0 | | | | 10.5 | 4.0 | 8.0 | 10.5 | 5.5 | 9.5 | | | |
| 0.1 | 7.5 | 3.5 | 7.5 | 7.5 | 4.5 | 8.5 | | | | 10.5 | 5.0 | 8.5 | 10.5 | 6.0 | 10.0 | | | |
| 0.15 | 7.5 | 4.0 | 8.0 | | | | 10.5 | 4.0 | 8.0 | 10.5 | 5.0 | 9.5 | | | | | | |
| 0.18 | 7.5 | 4.5 | 8.5 | | | | 10.5 | 4.0 | 8.0 | 10.5 | 5.5 | 9.5 | | | | | | |
| 0.22 | 7.5 | 4.5 | 8.5 | | | | 10.5 | 4.0 | 8.0 | 10.5 | 5.5 | 10.0 | | | | | | |
| 0.33 | 7.5 | 5.5 | 9.5 | | | | 10.5 | 5.0 | 9.0 | 10.5 | 6.0 | 10.5 | | | | | | |
| 0.47 | 7.5 | 6.0 | 11.5 | | | | 10.5 | 5.5 | 9.5 | 10.5 | 6.0 | 10.5 | | | | | | |
| 0.56 | 7.5 | 5.5 | 10.0 | | | | 10.5 | 5.5 | 9.5 | 10.5 | 6.0 | 10.5 | | | | | | |
| 0.68 | 7.5 | 6.0 | 11.0 | | | | 10.5 | 5.5 | 10.0 | | | | | | | | | |
| 0.82 | 7.5 | 6.0 | 11.0 | | | | 10.5 | 5.5 | 10.0 | | | | | | | | | |



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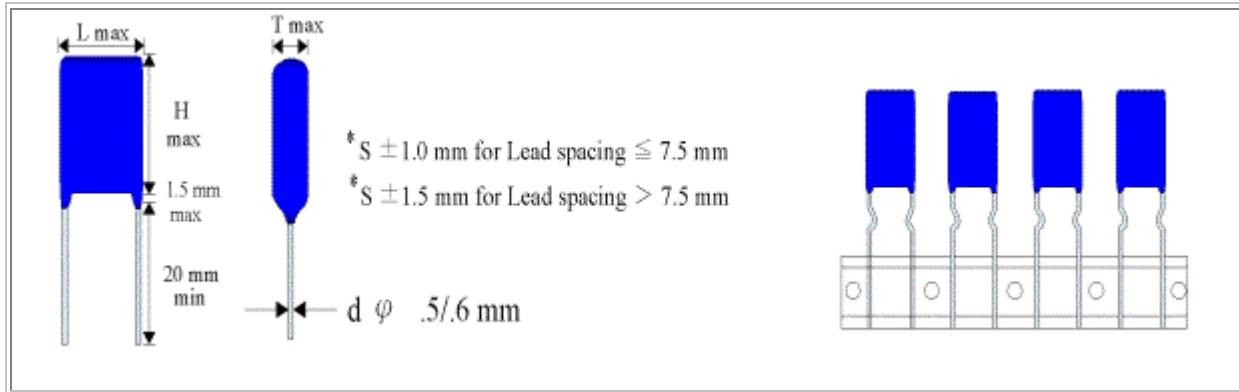


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Issue: January - 2001

TYPE
POL

POLYPROPYLENE CAPACITOR

INDUCTIVE, RADIAL LEAD WELDED CONSTRUCTION, EPOXY COATED



APPLICATION

Wide application in radio sets, commercial electronic equipments.

FEATURES

- *Low dissipation factor.
- *Excellent moisture resistance.
- *Negative temperature dependence.
- *Good reliability.

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:
-40°C to 85°C
2. VOLTAGE RANGE:
50 and 100 VDC.
3. CAPACITANCE RANGE:
0.001 to 0.1 Mfd.
4. DIELECTRIC STRENGTH:
250% of rated voltage for 5 sec.
5. CAPACITANCE TOLERANCE:
±5%, ±10% and ±20%.
6. INSULATION RESISTANCE:
50,000 Meg. Ohm min. at 25°C.
7. DISSIPATION FACTOR:
0.1% max. at 1KHz 25°C.

| VDC | 50/100 VDC | | | |
|--------|------------|-----|------|-----|
| Mfd | L | T | H | LS |
| 0.001 | 7.0 | 4.5 | 11.0 | 3.5 |
| 0.0012 | 7.0 | 4.5 | 11.0 | 3.5 |
| 0.0015 | 7.0 | 4.5 | 11.0 | 3.5 |
| 0.0022 | 7.5 | 5.0 | 11.0 | 3.5 |
| 0.0033 | 7.5 | 5.0 | 11.0 | 3.5 |
| 0.0047 | 7.5 | 5.0 | 11.0 | 3.5 |
| 0.068 | 7.5 | 5.0 | 11.0 | 5.0 |

| VDC | 50/100 VDC | | | |
|-------|------------|-----|------|-----|
| Mfd | L | T | H | LS |
| 0.01 | 8.0 | 5.0 | 11.0 | 4.0 |
| 0.015 | 8.5 | 5.0 | 12.0 | 4.5 |
| 0.022 | 9.0 | 5.5 | 12.0 | 4.5 |
| 0.033 | 9.5 | 6.0 | 12.0 | 5.0 |
| 0.047 | 10.5 | 6.0 | 12.0 | 6.0 |
| 0.068 | 12.0 | 7.0 | 12.0 | 7.5 |
| 0.1 | 13.0 | 8.5 | 12.0 | 8.5 |



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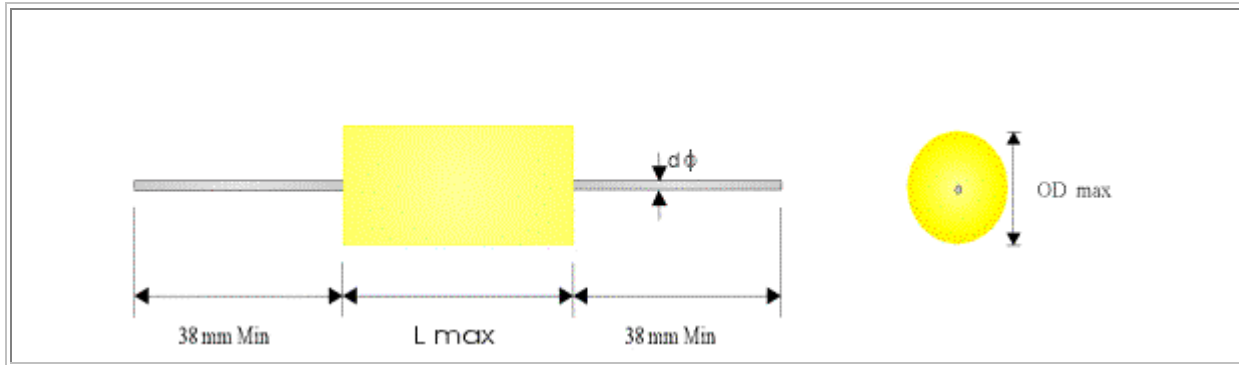


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TYPE
POT

POLYESTER CAPACITOR

NON-INDUCTIVE, EXTENDED FOIL, WRAP AND FILL



APPLICATION

*Use in communication and industrial electronics as precision timing and oscillation circuit, signals coupling, by passing circuit.

FEATURES

- *Excellent long term stability and high reliability.
- *Negative temperature coefficient can be used in critical circuits.
- *Miniature size and light weight.
- *Available tape and reel package for auto-insertion.

| OD | d φ |
|------------|-------|
| up to 10mm | 0.6mm |
| over 10mm | 0.8mm |

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:

-40°C to 85°C

Derate DC voltage 1.5%/°C above 85°C to 105°C

2. VOLTAGE RANGE:

100, 250, 400, 630 and 1000

VDC.

3. CAPACITANCE RANGE:

0.001 to 0.47 Mfd.

4. DIELECTRIC STRENGTH:

250% of rated voltage for 5 sec.

5. CAPACITANCE TOLERANCE:

±5%, ±10% and ±20%.

±1%, ±2% available upon

request.

6. INSULATION RESISTANCE:

50,000 Meg. Ohm min. at 25°C.

7. DISSIPATION FACTOR:

0.1% max. at 1KHz 25°C.

| VDC | 100 VDC | | 250 VDC | | 400 VDC | | 630 VDC | | 1000 VDC | |
|--------|---------|------|---------|------|---------|------|---------|------|----------|------|
| Mfd | OD | L | OD | L | OD | L | OD | L | OD | L |
| 0.001 | 5.0 | 11.5 | 5.0 | 11.5 | 5.0 | 11.5 | 5.0 | 13.5 | 7.5 | 19.0 |
| 0.0015 | 5.0 | 11.5 | 5.0 | 11.5 | 5.0 | 11.5 | 5.0 | 13.5 | 8.0 | 19.0 |
| 0.0022 | 5.0 | 11.5 | 5.0 | 11.5 | 5.0 | 11.5 | 6.0 | 13.5 | 8.8 | 19.0 |
| 0.0033 | 5.0 | 11.5 | 5.0 | 11.5 | 6.0 | 13.5 | 7.0 | 16.0 | 9.5 | 19.0 |
| 0.0047 | 5.5 | 11.5 | 5.5 | 11.5 | 6.5 | 13.5 | 7.5 | 16.0 | 10.5 | 19.0 |
| 0.0068 | 6.0 | 11.5 | 6.0 | 11.5 | 7.0 | 13.5 | 7.5 | 19.0 | 11.5 | 19.0 |
| 0.01 | 6.5 | 11.5 | 6.5 | 13.5 | 7.5 | 16.0 | 8.5 | 19.0 | 11.5 | 27.0 |
| 0.015 | 6.5 | 13.5 | 7.0 | 16.0 | 8.5 | 16.0 | 10.0 | 23.0 | 12.5 | 27.0 |
| 0.022 | 7.0 | 13.5 | 7.5 | 16.0 | 9.5 | 16.0 | 11.0 | 27.0 | 14.0 | 27.0 |
| 0.033 | 7.5 | 16.0 | 7.5 | 19.0 | 9.5 | 19.0 | 12.0 | 32.0 | 14.0 | 37.0 |
| 0.047 | 7.5 | 19.0 | 8.5 | 19.0 | 10.5 | 19.0 | 13.0 | 32.0 | 16.0 | 37.0 |
| 0.068 | 8.5 | 19.0 | 9.0 | 23.0 | 10.5 | 23.0 | 14.0 | 32.0 | | |
| 0.1 | 9.5 | 23.0 | 10.5 | 23.0 | 13.0 | 27.0 | 15.5 | 37.0 | | |
| 0.15 | 11.0 | 27.0 | 12.5 | 27.0 | 13.0 | 32.0 | | | | |
| 0.22 | 12.5 | 32.0 | 13.5 | 32.0 | 15.0 | 32.0 | | | | |
| 0.33 | 14.0 | 32.0 | 15.0 | 32.0 | 17.0 | 37.0 | | | | |
| 0.47 | 15.0 | 32.0 | | | | | | | | |



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 Sarasota, Florida 34243

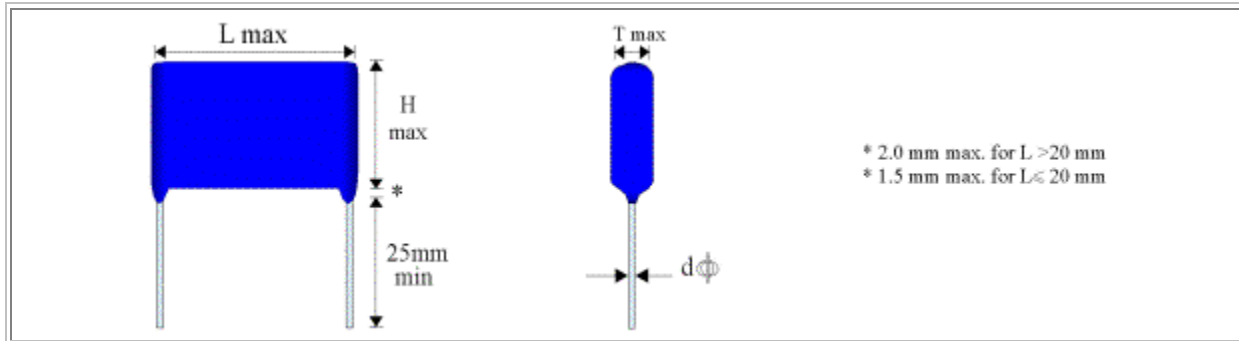


Phone: 941-355-9791
Sales: 800-237-4564
Fax: 941-355-1530
E-Mail: sales@brelintl.com
Website: www.brelintl.com
Issue: January - 2001

TYPE
POD

POLYPROYLENE CAPACITOR

NON-INDUCTIVE, EXTENDED FOIL, EPOXY DIP COATED



APPLICATION

*High frequency tuning, yoke coupling, voltage retrace in T.V. and monitor circuit.

FEATURES

- *Very low dissipation factor, suitable for high frequency application.
- *Negative temperature coefficient.
- *High reliability and high insulation resistance.

| | | | | | | |
|----|------|------|------|------|------|------|
| L | 13.0 | 19.0 | 24.0 | 31.0 | 35.0 | 40.0 |
| S | 10.0 | 15.0 | 20.0 | 27.0 | 30.0 | 35.0 |
| dφ | 0.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:

-40°C to 85°C

2. VOLTAGE RANGE:

100, 250, 400, 630 and 1000 VDC.

3. CAPACITANCE RANGE:

0.001 to 0.47 Mfd.

4. DIELECTRIC STRENGTH:

250% of rated voltage for 5 sec.

5. CAPACITANCE TOLERANCE:

±5%, ±10% and ±20%.

6. INSULATION RESISTANCE:

50,000 Meg. Ohm at 25°C.

7. DISSIPATION FACTOR:

0.1% max. at 1KHz 25°C.

| VDC | 100 VDC | | | 250 VDC | | | 400 VDC | | | 630 VDC | | | 1000 VDC | | |
|--------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|----------|------|------|
| Mfd | L | T | H | L | T | H | L | T | H | L | T | H | L | T | H |
| 0.001 | 13.0 | 6.0 | 9.0 | 13.0 | 6.0 | 9.0 | 13.0 | 6.0 | 9.0 | 13.0 | 6.0 | 10.0 | 13.0 | 7.5 | 12.0 |
| 0.0022 | 13.0 | 6.0 | 9.0 | 13.0 | 6.0 | 9.0 | 13.0 | 6.0 | 9.0 | 13.0 | 7.0 | 10.0 | 13.0 | 8.5 | 12.5 |
| 0.0033 | 13.0 | 6.0 | 9.5 | 13.0 | 6.5 | 9.5 | 13.0 | 7.0 | 10.0 | 13.0 | 7.5 | 11.5 | 19.0 | 8.5 | 13.5 |
| 0.0047 | 13.0 | 6.5 | 9.5 | 13.0 | 7.0 | 10.0 | 13.0 | 7.5 | 11.0 | 13.0 | 8.0 | 12.5 | 19.0 | 9.5 | 14.0 |
| 0.0068 | 13.0 | 7.0 | 10.0 | 13.0 | 7.5 | 10.5 | 13.0 | 8.0 | 11.5 | 13.0 | 9.0 | 14.0 | 19.0 | 10.5 | 16.0 |
| 0.01 | 13.0 | 7.5 | 10.5 | 13.0 | 7.5 | 11.0 | 13.0 | 8.5 | 12.0 | 19.0 | 9.0 | 14.0 | 24.0 | 10.0 | 16.0 |
| 0.022 | 13.0 | 8.0 | 11.0 | 13.0 | 8.5 | 12.0 | 19.0 | 8.5 | 13.0 | 19.0 | 11.5 | 17.0 | 24.0 | 12.0 | 18.5 |
| 0.033 | 19.0 | 8.0 | 12.0 | 19.0 | 8.5 | 13.0 | 19.0 | 9.0 | 13.5 | 24.0 | 11.0 | 17.0 | 31.0 | 12.5 | 19.0 |
| 0.047 | 19.0 | 8.5 | 13.0 | 19.0 | 9.0 | 13.5 | 24.0 | 10.0 | 15.0 | 24.0 | 12.0 | 17.0 | 31.0 | 14.0 | 21.5 |
| 0.068 | 19.0 | 9.5 | 15.0 | 19.0 | 10.0 | 15.5 | 24.0 | 11.0 | 16.0 | 31.0 | 12.5 | 18.0 | 35.0 | 14.0 | 24.0 |
| 0.082 | 24.0 | 10.0 | 16.0 | 24.0 | 11.5 | 17.0 | 31.0 | 11.0 | 17.0 | 31.0 | 13.0 | 19.0 | 35.0 | 15.0 | 26.5 |
| 0.1 | 24.0 | 11.0 | 17.0 | 24.0 | 12.5 | 18.0 | 31.0 | 12.0 | 18.0 | 31.0 | 14.0 | 21.0 | 35.0 | 17.0 | 28.0 |
| 0.22 | 24.0 | 13.0 | 19.0 | 24.0 | 14.5 | 20.0 | 31.0 | 15.0 | 21.5 | | | | | | |
| 0.33 | 31.0 | 14.0 | 21.0 | 31.0 | 15.0 | 22.0 | 40.0 | 15.5 | 22.0 | | | | | | |
| 0.39 | 31.0 | 15.0 | 22.0 | 31.0 | 16.0 | 23.0 | 40.0 | 16.5 | 25.0 | | | | | | |
| 0.47 | 31.0 | 16.0 | 23.0 | 31.0 | 17.0 | 24.0 | 40.0 | 17.5 | 27.0 | | | | | | |



BREL International Components, Inc.
 1621 West University Parkway
 Sarasota, Florida 34243

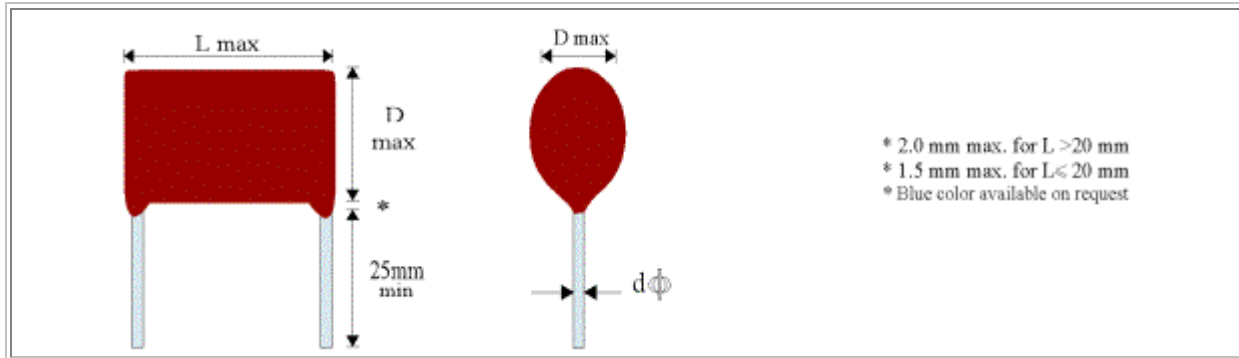


Phone: 941-355-9791
Sales: 800-237-4564
Fax: 941-355-1530
E-Mail: sales@brelintl.com
Website: www.brelintl.com
Issue: January - 2001

TYPE
POR

POLYPROPYLENE CAPACITOR

EXTENDED FOIL, FLAME RETARDANT EPOXY COATED,
PULSE APPLICATION



APPLICATION

*Specifically designed for high current and pulse application in horizontal deflection circuit of T.V. and monitor.

FEATURES

*Highly reliable self-healing nature for high voltage application.
*Excellent contacts and low ESR.

Maximum pulse rise time (volt/micro-second)

| VDC | S | 15.0 | 22.0 | 30.0 | 35.0 |
|-------|---|-------|-------|-------|-------|
| 1,000 | | 2,500 | 1,500 | 800 | ----- |
| 1,500 | | 3,500 | 2,800 | 1,500 | 700 |

for pulses equal to the rated voltage.

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:

-40°C to 85°C

2. VOLTAGE RANGE:

1000, 1500 and 2000 VDC upon request.

3. CAPACITANCE RANGE:

range: 0.001 to 0.047 Mfd.

4. DIELECTRIC STRENGTH:

250% of rated voltage for 5 sec.

5. CORONA FREE VOLTAGE:

VAC min(at 60Hz)

| VDC | Mfd | 0.001-0.0047 | 0.0068-0.047 |
|------|-----|--------------|--------------|
| 1000 | | 400 | 450 |
| 1500 | | 700 | 750 |

6. INSULATION RESISTANCE:

50,000 Meg. Ohm min. at 25°C.

7. DISSIPATION FACTOR:

0.1% max. at 1KHz 25°C.

| VDC | 1000 VDC | | | | 1500 VDC | | | |
|--------|----------|------|------|-----|----------|------|------|-----|
| Mfd | L | D | S | dφ | L | D | S | dφ |
| 0.001 | 20.0 | 9.5 | 15.0 | 0.8 | 20.0 | 11.0 | 15.0 | 0.8 |
| 0.0015 | 20.0 | 10.5 | 15.0 | 0.8 | 20.0 | 12.0 | 15.0 | 0.8 |
| 0.0022 | 20.0 | 11.5 | 15.0 | 0.8 | 27.0 | 12.0 | 22.0 | 0.8 |
| 0.0033 | 20.0 | 12.5 | 15.0 | 0.8 | 27.0 | 13.5 | 22.0 | 0.8 |
| 0.0047 | 20.0 | 13.5 | 15.0 | 0.8 | 27.0 | 15.0 | 22.0 | 0.8 |
| 0.0068 | 20.0 | 14.5 | 15.0 | 0.8 | 35.0 | 15.0 | 30.0 | 1.0 |
| 0.01 | 27.0 | 14.0 | 22.0 | 0.8 | 35.0 | 16.5 | 30.0 | 1.0 |
| 0.015 | 27.0 | 15.0 | 22.0 | 0.8 | 35.0 | 18.0 | 30.0 | 1.0 |
| 0.022 | 27.0 | 16.0 | 22.0 | 0.8 | 40.0 | 19.0 | 35.0 | 1.0 |
| 0.033 | 35.0 | 17.0 | 30.0 | 1.0 | 40.0 | 21.0 | 35.0 | 1.0 |
| 0.047 | 35.0 | 18.0 | 30.0 | 1.0 | 40.0 | 23.5 | 35.0 | 1.0 |



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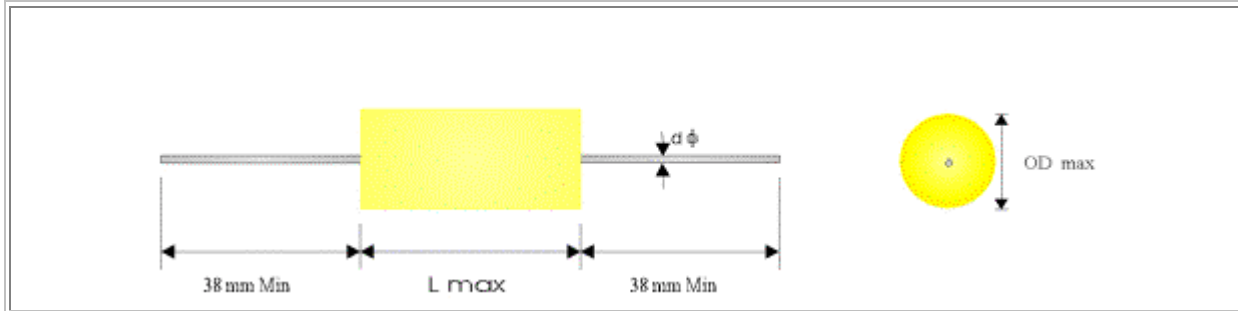


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TYPE
PMT

METALLIZED POLYPROPYLENE CAPACITOR

NON-INDUCTIVE, WRAP & FILL WITH POLYESTER
TAPE & EPOXY RESIN



APPLICATION

*Widely used in communication and electronic industries as timing integrating and filter networks.

FEATURES

- *High reliability and excellent long term stability.
- *Low losses and excellent for high frequency application.
- *Miniature size and light weight.
- *Available taped and reeled package for auto-insertion.

| OD | d φ |
|-------------|-------|
| up to 8.0mm | 0.6mm |
| over 8.0mm | 0.8mm |

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:

-40°C to 85°C

2. VOLTAGE RANGE:

250, 400 and 630 VDC.

3. CAPACITANCE RANGE:

0.01 to 4.7 Mfd.

4. DIELECTRIC STRENGTH:

160% of rated voltage for 2 sec.

5. CAPACITANCE TOLERANCE:

±5%, ±10% and ±20%.

±1% and ±2% available upon request.

6. INSULATION RESISTANCE:

c < .33Mfd, R ≥ 30,000 Meg. Ohm at 25°C.

c ≥ .33Mfd, R_c ≥ 10,000 Meg. Ohm × Mfd.

7. DISSIPATION FACTOR:

0.1% max. at 1KHz 25°C.

Maximum pulse rise time (dv / dt) V / μsec

| VDC | Lmax | 14.0 | 19.0 | 25.0 | 32.0 | 37.0 | 47.0 |
|-----|------|------|------|------|------|------|-------|
| 250 | | 10.0 | 7.0 | 4.0 | 2.5 | 1.2 | ----- |
| 400 | | 13.5 | 10.0 | 6.5 | 4.0 | 2.0 | ----- |
| 630 | | 20.0 | 15.0 | 10.0 | 6.0 | 4.0 | 2.2 |

| VDC | 250 VDC | | 400 VDC | | 630 VDC | |
|-------|---------|------|---------|------|---------|------|
| Mfd | OD | L | OD | L | OD | L |
| 0.01 | 5.0 | 14.0 | 5.5 | 14.0 | 6.5 | 14.0 |
| 0.015 | 5.5 | 14.0 | 6.0 | 14.0 | 7.0 | 14.0 |
| 0.022 | 6.0 | 14.0 | 7.0 | 14.0 | 8.0 | 14.0 |
| 0.033 | 6.0 | 14.0 | 7.5 | 14.0 | 8.0 | 19.0 |
| 0.047 | 6.5 | 14.0 | 8.0 | 14.0 | 9.0 | 19.0 |
| 0.068 | 7.5 | 14.0 | 8.0 | 19.0 | 9.0 | 25.0 |
| 0.1 | 8.0 | 14.0 | 8.5 | 19.0 | 11.0 | 25.0 |
| 0.15 | 8.5 | 14.0 | 8.5 | 19.0 | 11.0 | 25.0 |
| 0.22 | 9.0 | 19.0 | 9.5 | 25.0 | 13.0 | 32.0 |
| 0.33 | 9.0 | 25.0 | 11.5 | 25.0 | 15.0 | 32.0 |
| 0.47 | 10.5 | 25.0 | 12.0 | 32.0 | 17.0 | 32.0 |
| 0.68 | 12.5 | 25.0 | 14.0 | 32.0 | 18.5 | 37.0 |
| 1.0 | 12.5 | 32.0 | 16.5 | 32.0 | 19.0 | 47.0 |
| 1.5 | 14.5 | 32.0 | 18.5 | 37.0 | | |
| 2.2 | 16.5 | 32.0 | 21.0 | 37.0 | | |
| 3.3 | 17.5 | 37.0 | | | | |
| 4.7 | 21.0 | 37.0 | | | | |



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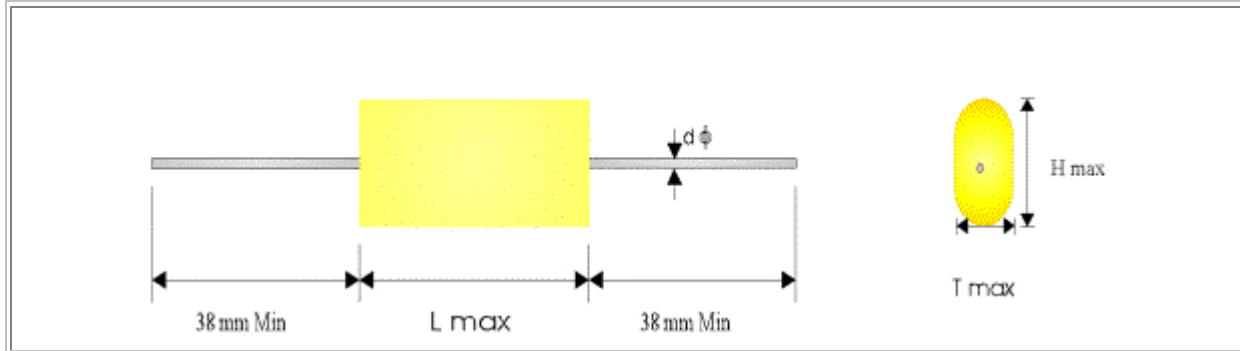


Phone: 941-355-9791
Sales: 800-237-4564
Fax: 941-355-1530
E-Mail: sales@brelintl.com
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Issue: January - 2001

TYPE
PMF

METALLIZED POLYPROPYLENE CAPACITOR

NON-INDUCTIVE, AXIAL LEAD, FLAT OVAL SHAPE



APPLICATION

Waveform shaping, delay and timing circuit for communication and electronic industries.

FEATURES

- *High reliability and excellent long term stability.
- *Very low dissipation factor.
- *Suitable for pulse and high frequency application.

Maximum pulse rise time (dv / dt) V / μ sec

| | | | | | | |
|-------------|-------|-------|------|------|------|------|
| Lmax VDC | 14.0 | 19.0 | 25.0 | 32.0 | 37.0 | 47.0 |
| 250 | 10.0 | 7.0 | 4.0 | 4.0 | 1.5 | 0.8 |
| 400 | ----- | 10.0 | 6.5 | 6.5 | 3.0 | 1.0 |
| 630 | ----- | ----- | 10.0 | 10.0 | 4.0 | 2.0 |

| | | | | | | |
|----|------|------|------|------|------|------|
| L | 14.0 | 19.0 | 25.0 | 32.0 | 37.0 | 47.0 |
| dφ | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 1.0 |

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:

-40°C to 85°C

2. VOLTAGE RANGE:

250, 400 and 630 VDC.

3. CAPACITANCE RANGE:

0.1 to 6.8 Mfd.

4. DIELECTRIC STRENGTH:

160% of rated voltage for 2 sec.

5. CAPACITANCE TOLERANCE:

±5%, ±10% and ±20%.

6. INSULATION RESISTANCE:

c < .33Mfd, R ≥ 30,000 Meg. Ohm at 25°C.

c ≥ .33Mfd, RC ≥ 10,000 Meg. Ohm × Mfd.

7. DISSIPATION FACTOR:

0.1% max. at 1KHz 25°C.

| VDC | 250 VDC | | | 400 VDC | | | 630 VDC | | |
|------|---------|------|------|---------|------|------|---------|------|------|
| Mfd | L | T | H | L | T | H | L | T | H |
| 0.1 | 14.0 | 5.5 | 10.0 | 19.0 | 6.5 | 11.5 | 25.0 | 8.0 | 13.0 |
| 0.15 | 19.0 | 6.0 | 10.5 | 19.0 | 8.0 | 13.5 | 25.0 | 9.0 | 15.0 |
| 0.22 | 19.0 | 7.0 | 10.5 | 25.0 | 8.0 | 14.0 | 32.0 | 9.0 | 15.5 |
| 0.33 | 19.0 | 8.0 | 12.5 | 25.0 | 9.5 | 16.0 | 32.0 | 11.5 | 19.5 |
| 0.47 | 25.0 | 8.0 | 13.5 | 32.0 | 9.5 | 16.0 | 32.0 | 14.0 | 23.0 |
| 0.68 | 25.0 | 9.5 | 15.5 | 32.0 | 11.0 | 19.0 | 37.0 | 15.0 | 24.0 |
| 1.0 | 25.0 | 11.0 | 17.5 | 32.0 | 12.0 | 21.0 | 47.0 | 16.0 | 25.0 |
| 1.5 | 32.0 | 11.0 | 17.5 | 37.0 | 13.0 | 22.0 | 47.0 | 20.0 | 29.0 |
| 2.2 | 32.0 | 12.5 | 20.0 | 37.0 | 16.0 | 25.0 | 47.0 | 24.0 | 34.0 |
| 3.3 | 37.0 | 13.0 | 22.0 | 47.0 | 16.0 | 28.0 | | | |
| 4.7 | 37.0 | 15.0 | 25.0 | 47.0 | 22.0 | 34.0 | | | |
| 6.8 | 47.0 | 16.5 | 26.5 | | | | | | |



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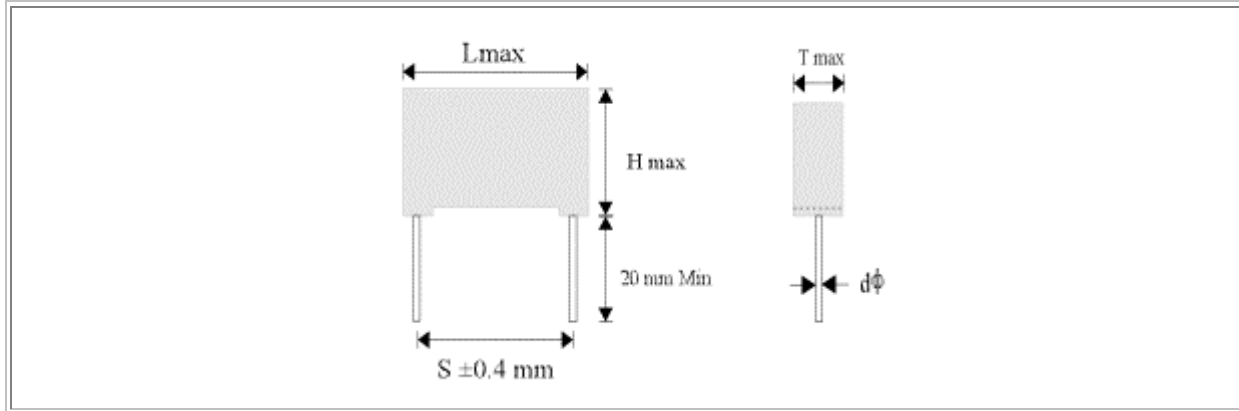


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Fax: 941-355-1530
E-Mail: sales@brelintl.com
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Issue: January - 2001

TYPE
PMK

METALLIZED POLYPROPYLENE CAPACITOR

NON-INDUCTIVE, LOW SELF INDUCTANCE,
FLAME RETARDANT ENCASED



| CASE CODE | L | T | H | S | dφ |
|-----------|------|------|------|------|-----|
| B2 | 10.5 | 4.0 | 9.0 | 7.5 | 0.6 |
| C1 | 13.0 | 4.0 | 9.0 | 10.0 | 0.8 |
| C2 | 13.0 | 5.0 | 11.0 | 10.0 | 0.8 |
| C3 | 13.0 | 6.0 | 12.0 | 10.0 | 0.8 |
| D1 | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| D2 | 18.0 | 6.0 | 12.0 | 15.0 | 0.8 |
| D3 | 18.0 | 7.5 | 13.5 | 15.0 | 0.8 |
| D4 | 18.0 | 8.5 | 14.5 | 15.0 | 0.8 |
| E1 | 26.5 | 6.0 | 15.0 | 22.5 | 0.8 |
| E2 | 26.5 | 7.0 | 16.5 | 22.5 | 0.8 |
| E3 | 26.5 | 8.5 | 17.0 | 22.5 | 0.8 |
| E4 | 26.5 | 10.0 | 19.0 | 22.5 | 0.8 |
| F1 | 32.0 | 11.0 | 20.0 | 27.5 | 0.8 |
| F2 | 32.0 | 13.0 | 22.0 | 27.5 | 0.8 |
| G1 | 32.0 | 15.0 | 30.0 | 27.5 | 0.8 |

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:
-40°C to 85°C

2. VOLTAGE RANGE:
250, 400 and 630 VDC.

3. CAPACITANCE RANGE:
0.01 to 2.2 Mfd.

4. DIELECTRIC STRENGTH:
160% of rated voltage for 2 sec.

5. CAPACITANCE TOLERANCE:
±5%, ±10% and ±20%.

6. INSULATION RESISTANCE:
c < .33Mfd, R ≥ 30,000 Meg.
Ohm at 25°C.
c ≥ .33Mfd, RC ≥ 10,000 Meg.
Ohm × Mfd.

| VDC Mfd | 250VDC CASE CODE | 400VDC CASE CODE | 630VDC CASE CODE |
|------------|---------------------|---------------------|---------------------|
| 0.01 | B2/C1 | C1 | C2 |
| 0.015 | B2/C1 | C1 | C2 |
| 0.022 | C1 | C2 | C3 |
| 0.033 | C1 | C2 | D2 |
| 0.047 | C2 | C3 | D3 |
| 0.068 | C2 | D2 | D4 |
| 0.1 | C3/D1 | D3 | E2 |
| 0.15 | D2 | D4 | E3 |
| 0.22 | D2 | E2 | E4/F1 |
| 0.33 | E1 | E3 | F2 |
| 0.47 | E2 | E4/F1 | G1 |
| 0.68 | E2 | F1 | |
| 1.0 | E/F1 | F2 | |
| 1.5 | F1 | G1 | |
| 2.2 | F1 | | |

7. DISSIPATION FACTOR:
0.1% max. at 1KHz 25°C.

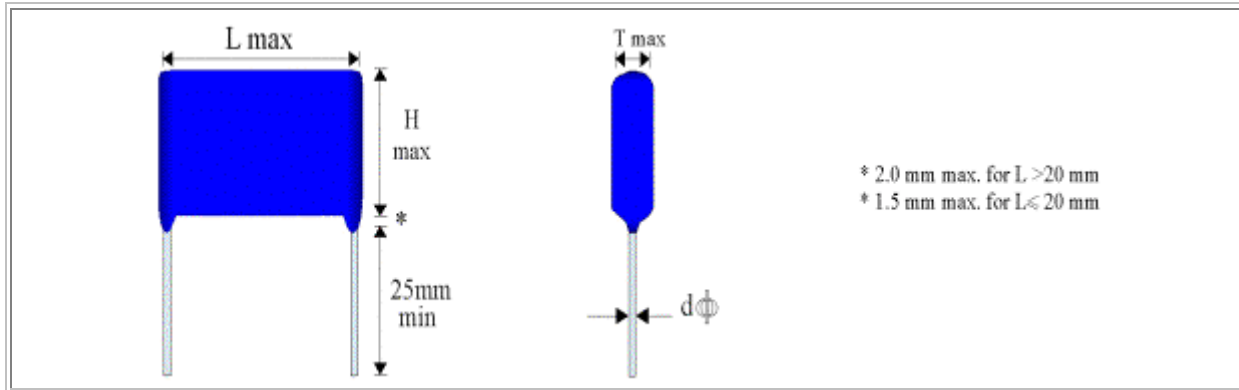
Maximum pulse rise time
(dv/dt)V/ μ sec

| VDC ^S | 7.5 | 10.0 | 15.0 | 22.5 | 27.5 |
|------------------|-----|------|------|------|------|
| 250 | 15 | 11 | 7 | 4 | 3 |
| 400 | 30 | 20 | 10 | 5.5 | 5 |
| 630 | 40 | 30 | 15 | 8 | 7 |

TYPE
PMD

METALLIZED POLYPROPYLENE CAPACITOR

NON-INDUCTIVE, EPOXY DIP COATED



APPLICATION

Pulse and thyristor circuits, noise suppressor, B+ filter in all commercial and industrial equipment.

FEATURES

- *High reliability and excellent self-healing nature.
- *Pulse properties, low losses and low ESR.
- *Specials available upon request.

| VDC | S | 10.0 | 15.0 | 22.5 | 27.5 |
|-----|---|------|------|------|------|
| 250 | | 11.0 | 7.0 | 4.0 | 3.0 |
| 400 | | 20.0 | 10.0 | 5.5 | 5.0 |
| 630 | | 30.0 | 15.0 | 8.0 | 7.0 |

| | | | | |
|----|------|------|------|------|
| L | 13.0 | 18.0 | 26.0 | 31.0 |
| S | 10.0 | 15.0 | 22.5 | 27.5 |
| dφ | 0.6 | 0.8 | 0.8 | 0.8 |

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE: -40°C to 85°C
2. VOLTAGE RANGE: 250, 400 and 630 VDC.
3. CAPACITANCE RANGE: 0.01 to 2.2 Mfd.
4. DIELECTRIC STRENGTH: 160% of rated voltage for 2 sec.
5. CAPACITANCE TOLERANCE: ±5%, ±10% and ±20%.
6. INSULATION RESISTANCE:
 - c < .33Mfd, R ≥ 30,000 Meg. Ohm at 25°C.
 - c ≥ .33Mfd, RC ≥ 10,000 Meg. Ohm × Mfd.
7. DISSIPATION FACTOR: 0.1% max. at 1KHz 25°C.

| VDC | 250 VDC | | | 400 VDC | | | 630 VDC | | |
|-------|---------|------|------|---------|------|------|---------|------|------|
| Mfd | L | T | H | L | T | H | L | T | H |
| 0.01 | 13.0 | 5.0 | 9.0 | 13.0 | 5.0 | 9.0 | 13.0 | 5.5 | 9.5 |
| 0.015 | 13.0 | 5.0 | 9.0 | 13.0 | 5.0 | 9.5 | 13.0 | 6.5 | 10.5 |
| 0.022 | 13.0 | 5.0 | 9.0 | 13.0 | 5.5 | 10.5 | 13.0 | 7.0 | 11.5 |
| 0.033 | 13.0 | 5.5 | 9.0 | 13.0 | 6.5 | 11.0 | 18.0 | 7.0 | 11.5 |
| 0.047 | 13.0 | 5.5 | 9.5 | 13.0 | 7.5 | 12.5 | 18.0 | 8.5 | 13.5 |
| 0.068 | 13.0 | 6.0 | 10.5 | 18.0 | 6.8 | 12.5 | 18.0 | 9.5 | 15.5 |
| 0.1 | 13.0 | 7.0 | 11.0 | 18.0 | 7.5 | 13.5 | 26.0 | 8.5 | 15.5 |
| 0.15 | 18.0 | 7.0 | 12.0 | 26.0 | 7.5 | 14.5 | 26.0 | 9.5 | 17.5 |
| 0.22 | 18.0 | 7.5 | 12.5 | 26.0 | 8.5 | 15.5 | 31.0 | 10.0 | 17.0 |
| 0.33 | 18.0 | 8.5 | 14.0 | 26.0 | 10.0 | 17.5 | 31.0 | 13.0 | 21.5 |
| 0.47 | 26.0 | 8.5 | 15.0 | 31.0 | 10.0 | 18.0 | 31.0 | 15.5 | 24.5 |
| 0.68 | 26.0 | 9.5 | 17.0 | 31.0 | 12.5 | 21.5 | | | |
| 1.0 | 26.0 | 12.0 | 20.5 | 31.0 | 15.0 | 24.0 | | | |
| 1.5 | 31.0 | 13.0 | 20.5 | | | | | | |
| 2.2 | 31.0 | 15.5 | 24.5 | | | | | | |



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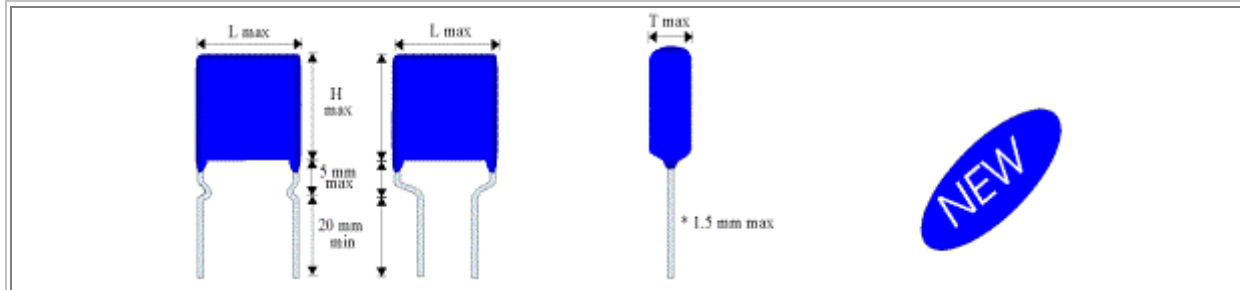


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Sales: 800-237-4564
Fax: 941-355-1530
E-Mail: sales@brelintl.com
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TYPE
PPD

METALLIZED POLYPROPYLENE CAPACITOR

NON-INDUCTIVE, EPOXY DIP COATED,
HIGH FREQUENCY APPLICATION



FEATURES

- *High reliability, excellent self-healing nature.
- *Used in high current application and high frequency application.
- *Suitable for TV or Computer monitor in S-shape correction.

GENERAL SPECIFICATION

- 1. OPERATING TEMPERATURE:**
-40°C to 85°C
- 2. VOLTAGE RANGE:**
250 and 400 VDC.
- 3. CAPACITANCE RANGE:**
0.056 to 3.3 Mfd.
- 4. DIELECTRIC STRENGTH:**
160% of rated voltage for 2 sec.
- 5. CAPACITANCE TOLERANCE:**
±5%, ±10% and ±20%.
- 6. INSULATION RESISTANCE:**
c < .33Mfd, $R \geq 30,000$ Meg. Ohm at 25°C.
- 7. DISSIPATION FACTOR:**
0.1% max. at 1KHz 25°C.



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| | | | | |
|---|------|------|------|------|
| L | 20.0 | 24.0 | 27.0 | 32.0 |
| S | 15.0 | 20.0 | 22.5 | 27.5 |
| d | 0.8 | 0.8 | 0.8 | 0.8 |

| VDC | 250 VDC | | | 400 VDC | | |
|-------|---------|-------|-------|---------|------|------|
| Mfd | L | T | H | L | T | H |
| 0.056 | ----- | ----- | ----- | 20.0 | 8.0 | 11.0 |
| 0.062 | ----- | ----- | ----- | 20.0 | 8.0 | 11.5 |
| 0.068 | ----- | ----- | ----- | 20.0 | 8.5 | 12.0 |
| 0.075 | ----- | ----- | ----- | 20.0 | 8.0 | 13.0 |
| 0.082 | ----- | ----- | ----- | 20.0 | 8.5 | 13.5 |
| 0.1 | 20.0 | 6.0 | 10.0 | 20.0 | 9.0 | 14.0 |
| 0.12 | 20.0 | 6.0 | 10.5 | 20.0 | 9.5 | 14.5 |
| 0.15 | 20.0 | 6.5 | 11.0 | 20.0 | 10.5 | 15.0 |
| 0.18 | 20.0 | 6.5 | 12.5 | 20.0 | 11.0 | 16.0 |
| 0.22 | 20.0 | 7.0 | 13.0 | 24.0 | 10.5 | 15.5 |
| 0.27 | 20.0 | 7.5 | 13.5 | 24.0 | 11.0 | 16.0 |
| 0.30 | 20.0 | 8.0 | 14.0 | 24.0 | 11.5 | 16.5 |
| 0.33 | 20.0 | 8.5 | 14.5 | 24.0 | 12.0 | 17.0 |
| 0.36 | 20.0 | 8.5 | 15.0 | 24.0 | 12.5 | 17.5 |
| 0.39 | 24.0 | 7.5 | 13.5 | 27.0 | 11.5 | 18.0 |
| 0.43 | 24.0 | 8.0 | 14.0 | 27.0 | 12.0 | 18.5 |
| 0.47 | 24.0 | 8.5 | 14.5 | 27.0 | 12.5 | 19.0 |
| 0.51 | 24.0 | 8.5 | 14.5 | 27.0 | 13.0 | 19.5 |
| 0.56 | 24.0 | 9.0 | 15.0 | 27.0 | 13.5 | 20.0 |
| 0.62 | 24.0 | 9.5 | 15.5 | 27.0 | 14.0 | 21.0 |
| 0.68 | 24.0 | 10.0 | 16.0 | 27.0 | 14.5 | 21.5 |
| 0.75 | 27.0 | 9.5 | 16.0 | 32.0 | 14.0 | 20.5 |
| 0.82 | 27.0 | 10.0 | 17.0 | 32.0 | 14.5 | 21.0 |
| 0.91 | 27.0 | 10.5 | 16.5 | 32.0 | 15.0 | 22.0 |



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| VDC | 250 VDC | | | 400 VDC | | |
|-----|---------|------|------|---------|-------|-------|
| Mfd | L | T | H | L | T | H |
| 1.0 | 27.0 | 11.0 | 17.0 | 32.0 | 15.5 | 22.5 |
| 1.2 | 27.0 | 12.0 | 18.0 | 32.0 | 17.0 | 24.0 |
| 1.5 | 32.0 | 11.0 | 19.0 | 32.0 | 19.0 | 26.0 |
| 1.8 | 32.0 | 12.0 | 20.0 | ----- | ----- | ----- |
| 2.2 | 32.0 | 13.5 | 21.0 | ----- | ----- | ----- |
| 2.7 | 32.0 | 15.0 | 22.5 | ----- | ----- | ----- |
| 3.0 | 32.0 | 15.5 | 23.5 | ----- | ----- | ----- |
| 3.3 | 32.0 | 16.5 | 24.0 | ----- | ----- | ----- |



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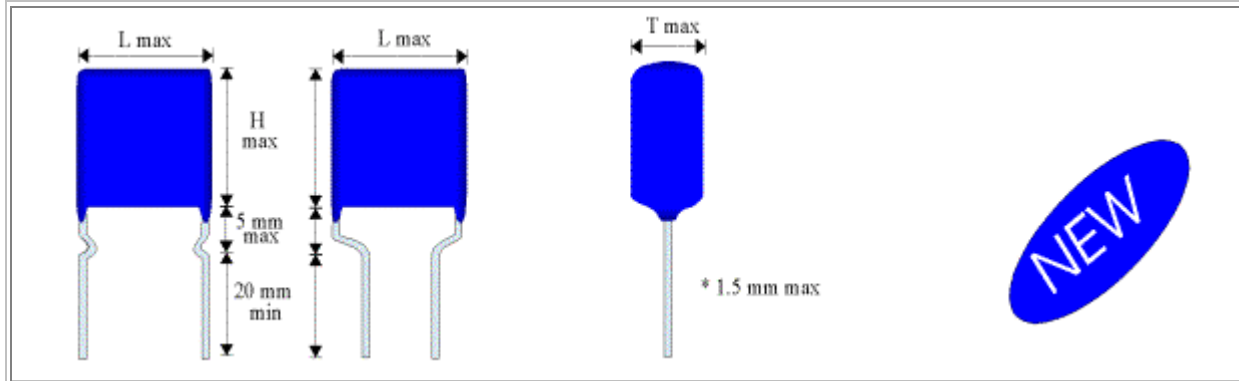


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TYPE
PHD

METALLIZED POLYPROPYLENE CAPACITOR

NON-INDUCTIVE, EPOXY DIP COATED,
HIGH FREQUENCY APPLICATION



FEATURES

- *High reliability excellent self-healing nature and excellent in heat radiation.
- *Used in high current application and high frequency.
- *Suitable for TV. Sets or monitors in S-shape correctio.

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:

-40°C to 85°C

2. VOLTAGE RANGE:

250 and 400 VDC.

3. CAPACITANCE RANGE:

0.1 to 1.5 Mfd.

4. DIELECTRIC STRENGTH:

160% of rated voltage for 2 sec.
25°C.

5. CAPACITANCE TOLERANCE:

±5% and ±10%.

6. INSULATION RESISTANCE:

$c < .33\text{Mfd}$, $R \geq 30,000$ Meg. Ohm
at 25°C.

$c \geq .33\text{Mfd}$, $R_c \geq 10,000$ Meg. Ohm

× Mfd.

7. DISSIPATION FACTOR:

0.1% max. at 1KHz 25°C.

| | | | | |
|---|------|------|------|------|
| L | 16.0 | 18.0 | 21.0 | 25.0 |
| S | 10.0 | 12.5 | 15.0 | 20.0 |
| d | 0.8 | 1.0 | 1.0 | 1.0 |

| VDC | 250 VDC | | | 400 VDC | | |
|------|---------|------|------|---------|------|------|
| Mfd | L | T | H | L | T | H |
| 0.1 | 16.0 | 9.5 | 14.5 | 18.0 | 11.5 | 18.0 |
| 0.15 | 16.0 | 11.0 | 16.0 | 18.0 | 13.5 | 20.0 |
| 0.22 | 16.5 | 12.5 | 18.0 | 18.0 | 16.0 | 22.5 |
| 0.27 | 16.0 | 13.5 | 18.5 | 18.0 | 17.0 | 24.0 |
| 0.33 | 18.0 | 12.5 | 19.0 | 21.0 | 16.0 | 22.5 |
| 0.36 | 18.0 | 13.0 | 19.5 | 21.0 | 17.0 | 23.0 |
| 0.39 | 18.0 | 13.5 | 20.0 | 21.0 | 17.5 | 24.0 |
| 0.43 | 18.0 | 14.0 | 20.5 | 21.0 | 17.5 | 25.0 |
| 0.47 | 18.0 | 14.5 | 21.0 | 21.0 | 18.0 | 26.0 |
| 0.51 | 18.0 | 15.0 | 22.0 | 21.0 | 18.5 | 27.0 |
| 0.56 | 21.0 | 14.0 | 21.0 | 21.0 | 19.5 | 27.5 |
| 0.62 | 21.0 | 14.5 | 22.0 | 21.0 | 20.5 | 28.5 |
| 0.68 | 21.0 | 15.0 | 23.0 | 21.0 | 21.0 | 30.0 |
| 1.0 | 21.0 | 17.5 | 26.0 | 25.0 | 20.0 | 31.0 |
| 1.1 | 21.0 | 19.0 | 28.0 | | | |
| 1.5 | 21.0 | 21.0 | 30.0 | | | |



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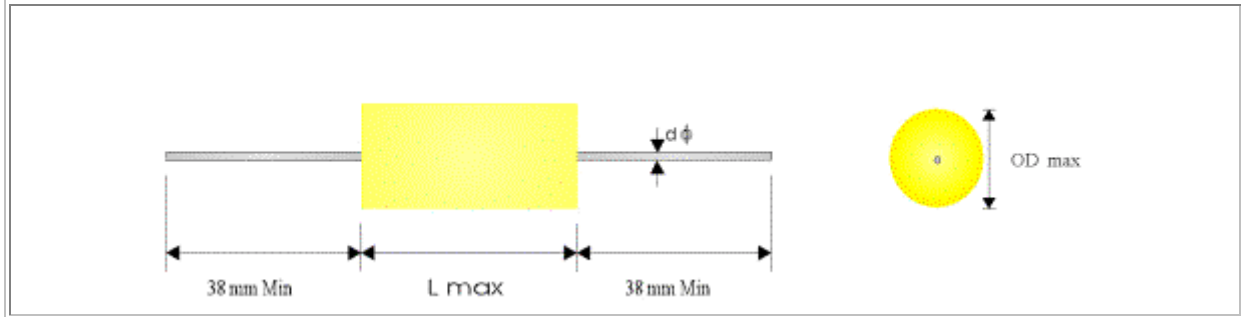


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 E-Mail: sales@brelintl.com
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METALLIZED POLYCARBONATE CAPACITOR

TYPE
CMT

NON-INDUCTIVE, WRAP & FILL WITH
POLYESTER TAPE & EPOXY RESIN



APPLICATION

Design to use in various type of electric circuits of industrial and communication equipments.

FEATURES

- *High reliability and low T.C.
- *Available tape and reel package for auto-insertion.

| OD | d φ |
|-------------|-------|
| up to 8.0mm | 0.6mm |
| over 8.0mm | 0.8mm |

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:

-40°C to 85°C

2. RATED RANGE:

100, 250 and 400 VDC.

3. CAPACITANCE RANGE:

0.01 to 6.8 Mfd.

4. DIELECTRIC STRENGTH:

160% of rated voltage for 2 sec.

5. CAPACITANCE TOLERANCE:

±5%, ±10% and ±20%.

±1% and ±2% available upon request.

6. INSULATION RESISTANCE:

c < .33Mfd, R ≥ 15,000 MΩ at 25 °C.

c ≥ .33Mfd, R_c ≥ 5,000 MΩ × Mfd.

7. DISSIPATION FACTOR:

0.4% max. at 1KHz 25°C.

| VDC | L _{max} | 10.5 | 14.0 | 19.0 | 27.0 | 32.0 |
|-----|------------------|-------|------|------|------|------|
| 100 | | 5.0 | 5.0 | 3.0 | 2.0 | 1.0 |
| 250 | | ----- | 10.0 | 7.0 | 4.0 | 2.5 |
| 400 | | ----- | 13.5 | 10.0 | 6.5 | 4.0 |

| VDC | 100 VDC | | 250 VDC | | 400 VDC | |
|-------|---------|------|---------|------|---------|------|
| Mfd | OD | L | OD | L | OD | L |
| 0.01 | | | | | 5.5 | 14.0 |
| 0.015 | | | | | 5.8 | 14.0 |
| 0.022 | | | | | 6.0 | 14.0 |
| 0.033 | | | 5.8 | 14.0 | 6.5 | 14.0 |
| 0.047 | 5.8 | 10.5 | 6.0 | 14.0 | 7.2 | 14.0 |
| 0.068 | 5.8 | 10.5 | 6.5 | 14.0 | 7.2 | 19.0 |
| 0.1 | 6.0 | 14.0 | 7.0 | 14.0 | 8.0 | 19.0 |
| 0.15 | 6.5 | 14.0 | 7.0 | 19.0 | 9.8 | 19.0 |
| 0.22 | 7.0 | 14.0 | 8.0 | 19.0 | 9.0 | 27.0 |
| 0.33 | 7.0 | 19.0 | 9.2 | 19.0 | 10.5 | 27.0 |
| 0.47 | 7.5 | 19.0 | 10.8 | 19.0 | 11.5 | 32.0 |
| 0.68 | 8.5 | 19.0 | 10.5 | 27.0 | 13.5 | 32.0 |
| 1.0 | 10.5 | 19.0 | 12.0 | 27.0 | 16.0 | 32.0 |
| 1.5 | 10.5 | 27.0 | 13.0 | 32.0 | | |
| 2.2 | 11.8 | 27.0 | 15.5 | 32.0 | | |
| 3.3 | 14.5 | 27.0 | | | | |
| 4.7 | 15.5 | 32.0 | | | | |
| 6.8 | 18.8 | 32.0 | | | | |



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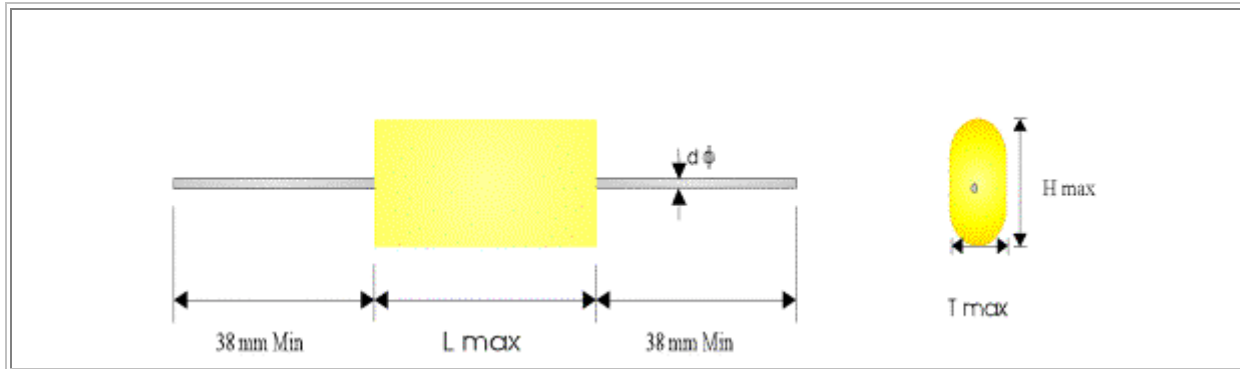


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Sales: 800-237-4564
Fax: 941-355-1530
E-Mail: sales@brelintl.com
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TYPE
CMF

METALLIZED POLYCARBONATE CAPACITOR

NON-INDUCTIVE, AXIAL LEAD, FLAT OVAL SHAPE



APPLICATION

Use in Pulse circuits, Timing, and Circuits requiring precision.

FEATURES

- *Low dissipation factor and excellent high frequency.
- *Light weight, high reliability and excellent long-term stability.
- *Self-healing properties.

| | | | | | | | |
|---|------|------|------|------|------|------|------|
| L | 14.0 | 19.0 | 25.0 | 32.0 | 37.0 | 43.0 | 47.0 |
| d | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 |

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:

-55°C to 105°C

2. VOLTAGE RANGE:

100, 250, 400 and 630 VDC.

3. CAPACITANCE RANGE:

0.1 to 18.0 Mfd.

4. DIELECTRIC STRENGTH:

160% of rated voltage for 2 sec.

5. CAPACITANCE TOLERANCE:

±5%, ±10% and ±20%.

±1% and ±2% available upon

request.

6. INSULATION RESISTANCE:

c < .33Mfd, R ≥ 15,000 Meg. Ohm at 25°C.

c ≥ .33Mfd, R_c ≥ 5,000 Meg. Ohm × Mfd.

7. DISSIPATION FACTOR:

0.4% max. at 1KHz 25°C.

| VDC | 100 VDC | | | 250 VDC | | | 400 VDC | | | 630 VDC | | |
|------|---------|------|------|---------|------|------|---------|------|------|---------|------|------|
| Mfd | L | T | H | L | T | H | L | T | H | L | T | H |
| 0.1 | | | | 14.5 | 5.0 | 8.5 | 19.0 | 5.5 | 11.0 | 25.0 | 7.0 | 13.5 |
| 0.15 | | | | 14.0 | 6.0 | 9.5 | 19.0 | 6.5 | 13.0 | 25.0 | 9.0 | 15.5 |
| 0.22 | 14.0 | 6.0 | 9.5 | 19.0 | 5.0 | 10.0 | 25.0 | 7.0 | 12.0 | 25.0 | 10.5 | 17.5 |
| 0.33 | 14.0 | 6.5 | 11.5 | 19.0 | 7.0 | 11.0 | 25.0 | 9.0 | 14.0 | 32.0 | 11.0 | 17.5 |
| 0.47 | 19.0 | 6.0 | 11.0 | 25.0 | 7.0 | 11.5 | 32.0 | 8.5 | 15.0 | 32.0 | 12.5 | 21.0 |
| 0.68 | 19.0 | 7.0 | 12.0 | 25.0 | 8.0 | 13.0 | 32.0 | 10.5 | 17.0 | 32.0 | 15.0 | 24.0 |
| 1.0 | 25.0 | 7.0 | 12.0 | 32.0 | 8.5 | 13.5 | 32.0 | 12.0 | 20.5 | 47.0 | 14.0 | 24.0 |
| 1.5 | 25.0 | 9.0 | 14.0 | 32.0 | 9.5 | 16.0 | 32.0 | 14.5 | 25.0 | 47.0 | 17.5 | 27.5 |
| 2.2 | 25.0 | 10.5 | 17.5 | 32.0 | 12.0 | 18.5 | 47.0 | 14.0 | 24.0 | 47.0 | 20.5 | 34.0 |
| 3.3 | 32.0 | 10.5 | 18.0 | 32.0 | 13.5 | 23.5 | 47.0 | 17.5 | 27.5 | 47.0 | 26.0 | 39.5 |
| 4.7 | 32.0 | 12.5 | 20.0 | 47.0 | 12.5 | 22.0 | 47.0 | 20.0 | 34.0 | | | |
| 6.8 | 37.0 | 14.5 | 23.0 | 47.0 | 15.0 | 25.5 | | | | | | |
| 10 | 43.0 | 16.0 | 25.0 | 47.0 | 18.0 | 31.5 | | | | | | |
| 12 | 47.0 | 16.0 | 26.0 | | | | | | | | | |
| 15 | 47.0 | 18.0 | 28.5 | | | | | | | | | |
| 18 | 47.0 | 20.0 | 31.0 | | | | | | | | | |



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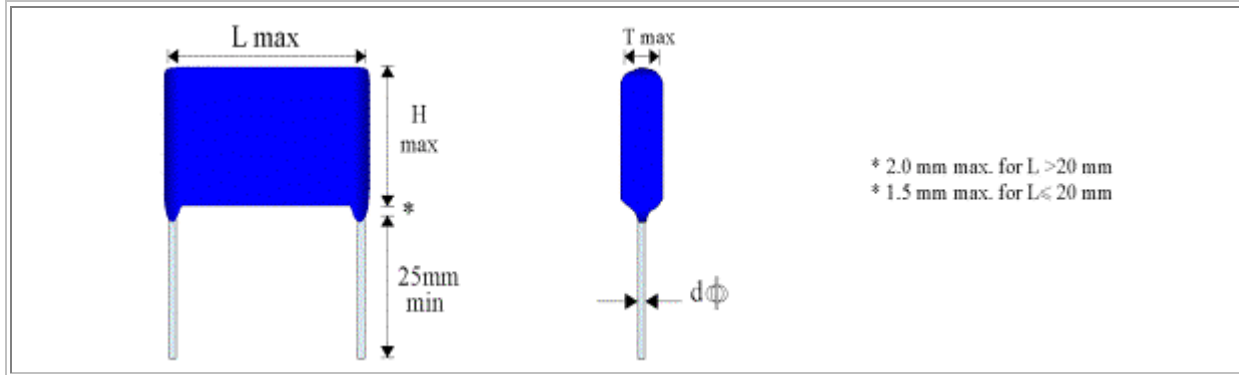


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METALLIZED POLYCARBONATE CAPACITOR

TYPE
CMD

NON-INDUCTIVE, EPOXY DIP COATED,
HIGH MOISTURE RESISTANCE



APPLICATION

For electronic industries, to apply at high working frequency and critical requirement for spacing.

FEATURES

- *Low dissipation factor & low temperature coefficient.
- *Available tape and reel package for auto-insertion.
- *Specials available upon request.

| | | | | |
|----|------|------|------|------|
| L | 12.5 | 18.0 | 26.0 | 31.0 |
| S | 10.0 | 15.0 | 22.5 | 27.5 |
| dφ | 0.6 | 0.8 | 0.8 | 0.8 |

Maximum pulse rise time (dv / dt) V / μsec

| | | | | | |
|-----|---|------|------|------|------|
| VDC | S | 10.0 | 15.0 | 22.5 | 27.5 |
| 100 | | 6.0 | 3.0 | 2.0 | 1.0 |
| 250 | | 11.0 | 7.0 | 4.0 | 3.0 |
| 400 | | 20.0 | 10.0 | 5.5 | 5.0 |

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:

-40°C to 85°C
Derate DC voltage 1.5%/°C above 85°C to 125°C

2. VOLTAGE RANGE:

100, 250 and 400 VDC.

3. CAPACITANCE RANGE:

0.01 to 6.8 Mfd.

4. DIELECTRIC STRENGTH:

160% of rated voltage for 2 sec.

5. CAPACITANCE TOLERANCE:

±5%, ±10% and ±20%.

6. INSULATION RESISTANCE:

c < .33Mfd, R ≥ 15,000 Meg. Ohm at 25°C.

c ≥ .33Mfd, RC ≥ 5,000 Meg. Ohm × Mfd.

7. DISSIPATION FACTOR:

0.4% max. at 1KHz 25°C.

| VDC | 100 VDC | | | 250 VDC | | | 400 VDC | | |
|-------|---------|------|------|---------|------|------|---------|------|------|
| Mfd | L | T | H | L | T | H | L | T | H |
| 0.01 | | | | | | | 12.5 | 4.5 | 9.5 |
| 0.015 | | | | | | | 12.5 | 4.5 | 10.0 |
| 0.022 | | | | | | | 12.5 | 5.0 | 10.5 |
| 0.033 | | | | 12.5 | 4.5 | 9.0 | 12.5 | 6.0 | 11.0 |
| 0.047 | | | | 12.5 | 5.0 | 9.5 | 18.0 | 6.5 | 12.0 |
| 0.068 | | | | 12.5 | 5.2 | 10.0 | 18.0 | 7.2 | 13.0 |
| 0.1 | 12.5 | 5.2 | 9.5 | 12.5 | 5.5 | 10.5 | 18.0 | 8.0 | 14.0 |
| 0.15 | 12.5 | 5.5 | 10.0 | 18.0 | 5.8 | 11.0 | 26.0 | 7.5 | 15.0 |
| 0.22 | 12.5 | 5.8 | 10.5 | 18.0 | 7.0 | 12.0 | 26.0 | 8.5 | 16.0 |
| 0.33 | 18.0 | 5.8 | 11.5 | 18.0 | 8.0 | 14.0 | 26.0 | 10.0 | 17.5 |
| 0.47 | 18.0 | 6.5 | 12.5 | 26.0 | 8.0 | 15.0 | 26.0 | 11.0 | 19.5 |
| 0.68 | 18.0 | 7.5 | 13.5 | 26.0 | 9.0 | 16.0 | 31.0 | 12.0 | 21.0 |
| 1.0 | 18.0 | 8.8 | 15.5 | 26.0 | 10.5 | 18.0 | 31.0 | 14.0 | 23.0 |
| 1.5 | 26.0 | 8.5 | 16.0 | 31.0 | 12.0 | 20.0 | | | |
| 2.2 | 26.0 | 9.5 | 17.0 | 31.0 | 14.0 | 22.0 | | | |
| 3.3 | 26.0 | 12.5 | 20.0 | | | | | | |
| 4.7 | 31.0 | 13.5 | 23.5 | | | | | | |
| 6.8 | 31.0 | 15.0 | 26.0 | | | | | | |



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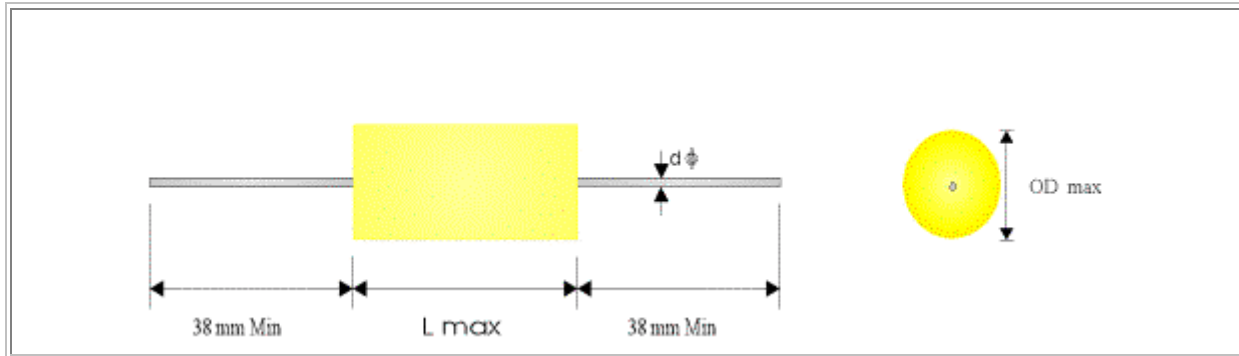


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TYPE
SOT

POLYSTYRENE CAPACITOR

NON-INDUCTIVE, EXTENDED FOIL, WRAP AND FILL



FEATURES

- *Reliability and stability.
- *Excellent electrical characteristics.
- *Low temperature coefficient.
- *Small dissipation factor.

| VDC | 100 & 200 VDC | |
|-------|---------------|------|
| pf | OD | L |
| 1000 | 5.0 | 11.5 |
| 2200 | 5.5 | 11.5 |
| 3300 | 6.0 | 13.5 |
| 4700 | 6.5 | 13.5 |
| 6800 | 7.0 | 13.5 |
| 10000 | 7.0 | 16.0 |
| 22000 | 8.0 | 19.0 |

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:

-40°C to 70°C

2. VOLTAGE RANGE:

100 and 200 VDC.

3. CAPACITANCE RANGE:

1000 to 2000 pf.

4. DIELECTRIC STRENGTH:

250% of rated voltage for 5 sec.

5. CAPACITANCE TOLERANCE:

±5% and ±10%.

±1%, ±2% available upon

request

6. INSULATION RESISTANCE:

100,000 Meg. Ohm min. at 100 VDC 25°C.

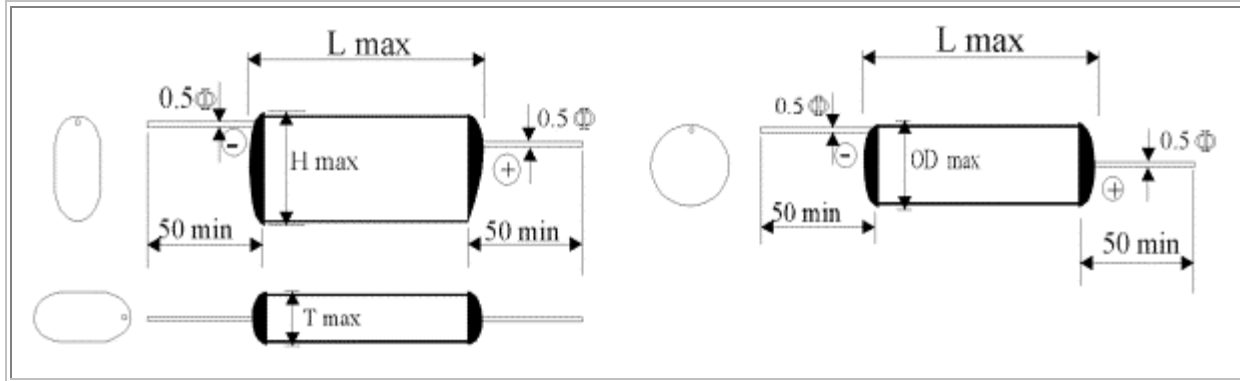
7. DISSIPATION FACTOR:

0.1% max. at 1KHz 25°C.

TYPE
EHP/
EHQ

VERY HIGH VOLTAGE FILM CAPACITOR

INDUCTIVE, METALLIZED FILM, COMPOUND CONSTRUCTION



APPLICATION

Used in Fly-back Transformer for color TV & monitors. Used for focusing circuit in laser equipment and for high voltage power circuit in copying machine, measuring equipment and others.

FEATURES

- *Economic construction, small size and light weight.
- *Positive temperature characteristic increases stability.
- *Excellent epoxy coating against high humidity.
- *Special size available upon request.

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:
-40°C to 85°C
2. VOLTAGE RANGE:
20KVDC, 25KVDC, 27KVDC and 30KVDC.
3. CAPACITANCE RANGE:
1,000 pf to 3,000 pf.
(Over range upon request)
4. DIELECTRIC STRENGTH:
120% of rated voltage for 60 sec.
5. CAPACITANCE TOLERANCE:
±10% and ±20%.
6. INSULATION RESISTANCE:
100,000 Meg. Ohm at 1,000VDC 25°C.
7. DISSIPATION FACTOR:
1.0% max. at 1KHz 25°C. $C \leq 3,000\text{pf}$.
2.0% max. at 1KHz 25°C. $3,000\text{pf} < C \leq 6,000\text{pf}$

Flat Type (EHP)

| VDC | 20KVDC | | | 25KVDC | | | 27KVDC | | | 30KVDC | | |
|---------|--------|------|------|--------|------|------|--------|------|------|--------|------|------|
| CAP(pf) | L | T | H | L | T | H | L | T | H | L | T | H |
| 1000 | 35.0 | 10.0 | 14.0 | 35.0 | 11.5 | 17.0 | 45.0 | 8.5 | 15.0 | 45.0 | 10.0 | 16.5 |
| 1500 | 35.0 | 11.0 | 16.5 | 45.0 | 11.5 | 17.0 | 45.0 | 10.5 | 17.0 | 45.0 | 11.0 | 21.0 |
| 2000 | 45.0 | 10.5 | 16.0 | 45.0 | 13.0 | 18.5 | 45.0 | 12.0 | 18.5 | 45.0 | 11.5 | 24.5 |
| 2500 | 45.0 | 11.0 | 17.0 | 45.0 | 13.5 | 20.5 | 45.0 | 12.0 | 21.0 | 45.0 | 12.0 | 27.5 |
| 2500 | | | | | | | | | | 50.0 | 11.0 | 26.5 |
| 2700 | 45.0 | 11.5 | 17.5 | 45.0 | 13.5 | 22.0 | 45.0 | 12.5 | 22.0 | 45.0 | 11.5 | 31.0 |
| 2700 | | | | | | | | | | 50.0 | 11.5 | 27.5 |
| 3000 | 45.0 | 12.0 | 18.0 | 45.0 | 14.0 | 23.0 | 45.0 | 12.5 | 24.5 | 45.0 | 12.0 | 32.0 |
| 3000 | | | | | | | 45.0 | 11.5 | 26.5 | 50.0 | 11.0 | 31.0 |

Round Type (EHQ)

| VDC | 20KVDC | | 30KVDC | |
|---------|--------|----|--------|----|
| CAP(pf) | L | OD | L | OD |
| 1000 | 35 | 12 | 50 | 15 |
| 1500 | 35 | 14 | 50 | 17 |
| 2000 | 35 | 15 | 50 | 18 |
| 3000 | 45 | 15 | 50 | 21 |



BREL International Components, Inc.
 1621 West University Parkway
 Sarasota, Florida 34243

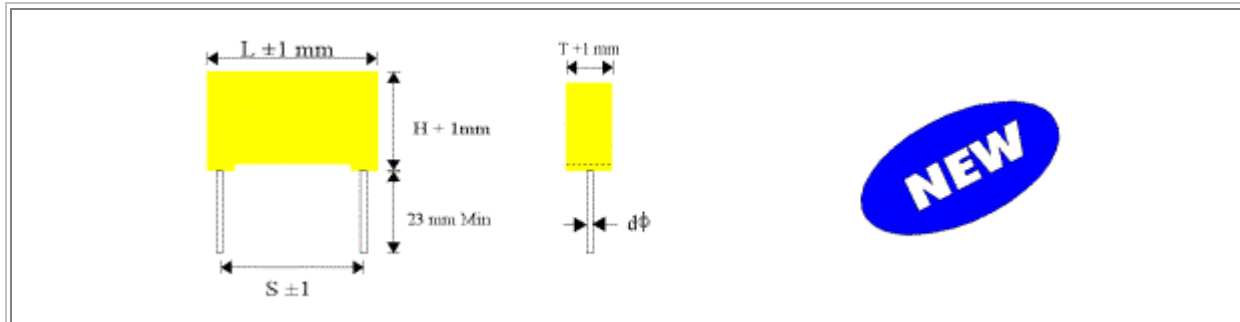


Phone: 941-355-9791
Sales: 800-237-4564
Fax: 941-355-1530
E-Mail: sales@brelintl.com
Website: www.brelintl.com
Issue: January - 2001

TYPE
FXK

METALLIZED POLYPROPYLENE AC CAPACITOR

INTERFERENCE SUPPRESSORS CLASS X2



LR98611-5



13693-4670-1701/A1



E178496(N)



305393-236



961505501



189703-01



P96101140



96.6 60065,01

GENERAL SPECIFICATION

1. OPERATING TEMPERATURE:

-40°C to 85°C

2. RATED RANGE:

275VAC, FOR VDE, SEV, SEMKO, NEMKO, DEMKO, FIMKO, 250VAC, FOR UL, CSA

3. CAPACITANCE RANGE:

0.001 μ F to 1.0 μ F

4. DIELECTRIC STRENGTH:

2200 VDC for 3-5 sec.

5. CAPACITANCE TOLERANCE:

$\pm 10\%$ for $C \geq .01$

$\pm 20\%$ for $C \geq .01$ (P=10mm)

6. INSULATION RESISTANCE:

$c < .33 \mu$ F, $R \geq 9,000 M\Omega$ at 25°C

$c < .33 \mu$ F, $R \geq 3,000 M\Omega \times \mu$ F

7. DISSIPATION FACTOR:

0.1% max. at 1KHz 25°C.



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| VAC | 250 VAC/275 VAC | | | | | |
|------------|-----------------|------|------|------|------|-----|
| μ F | Tol | L | T | H | S | D |
| 0.001-0.01 | M | 13.0 | 5.0 | 11.0 | 10.0 | 0.6 |
| 0.01-0.012 | K | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| 0.015 | K | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| 0.018 | K | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| 0.022 | K | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| 0.027 | K | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| 0.033 | K | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| 0.039 | K | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| 0.047 | K | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| 0.056 | K | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| 0.068 | K | 18.0 | 5.0 | 11.0 | 15.0 | 0.8 |
| 0.082 | K | 18.0 | 6.0 | 12.0 | 15.0 | 0.8 |
| 0.1 | K | 18.0 | 6.0 | 12.0 | 15.0 | 0.8 |
| 0.12 | K | 18.0 | 7.5 | 13.5 | 15.0 | 0.8 |
| 0.15 | K | 18.0 | 8.5 | 14.5 | 15.0 | 0.8 |
| 0.22 | K | 18.0 | 9.5 | 15.5 | 15.0 | 0.8 |
| 0.22 | K | 26.5 | 7.0 | 16.5 | 22.5 | 0.8 |
| 0.27 | K | 26.5 | 8.5 | 17.0 | 22.5 | 0.8 |
| 0.33 | K | 26.5 | 8.5 | 17.0 | 22.5 | 0.8 |
| 0.39 | K | 26.5 | 10.0 | 19.0 | 22.5 | 0.8 |
| 0.47 | K | 26.5 | 10.0 | 19.0 | 22.5 | 0.8 |
| 0.56 | K | 32.0 | 11.0 | 20.0 | 27.5 | 0.8 |
| 0.68 | K | 32.0 | 11.0 | 20.0 | 27.5 | 0.8 |
| 0.82 | K | 32.0 | 13.0 | 22.0 | 27.5 | 0.8 |
| 1.0 | K | 32.0 | 13.0 | 22.0 | 27.5 | 0.8 |
| 1.0 | K | 32.0 | 16.0 | 25.0 | 27.5 | 0.8 |



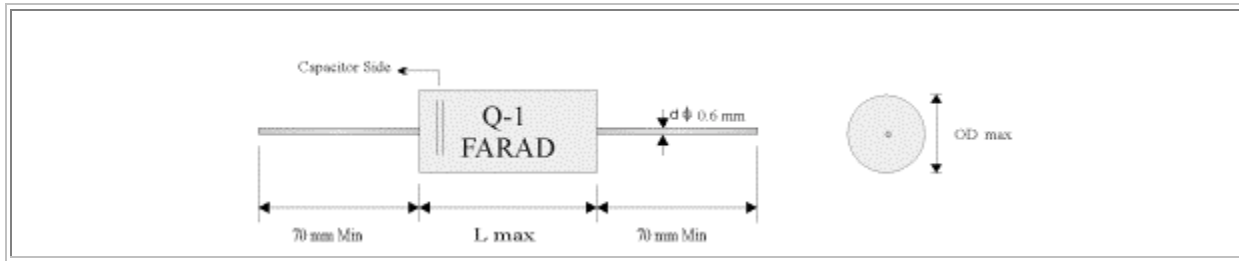
BRELE International Components, Inc.
 1621 West University Parkway
 Sarasota, Florida 34243



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TYPE Q-1/Q-2

MISCELLANEOUS FILM CAPACITOR



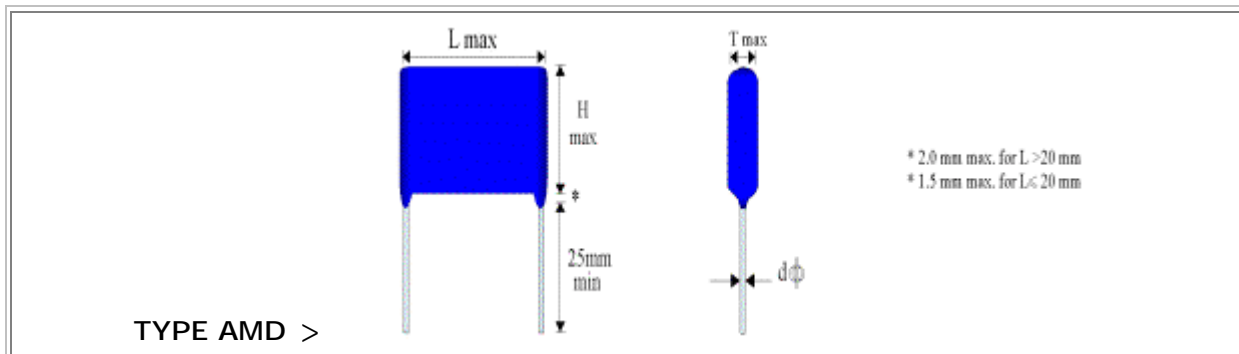
APPLICATION

Spark Killer.
Noise, click suppressor.

FEATURES

- *RC compound construction.
- *Small size and light weight.
- *Plastic can with epoxy resin filled.

| TYPE | VDC | CAPACITANCE Mfd | RESISTANCE Ohm | DIMENSION | |
|------|------|--------------------|-------------------|-----------|------|
| | | | | L | D |
| Q-1 | 350V | 0.13 | 470 ± 30% | 26 | 12.5 |
| Q-2 | 350V | 0.3 | 150 ± 30% | 36 | 14.0 |



TYPE AMD >

APPLICATION

Timing circuit.
Resonating equipment.
Testing equipment.
Voltage rating DC 100V.
Capacitance range 0.1 to 6.8 Mfd.

FEATURES

- *Dry metallized film construction.
- *Flat temperature coefficient up to 85.
- *Stable electrical characteristics and high reliability.

VARIOUS KINDS OF FILM CAPACITORS AVAILABLE UPON CUSTOMER'S REQUEST