

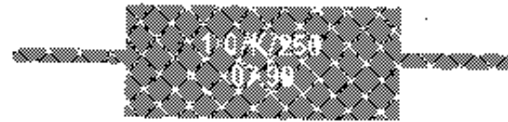
CTR

For stringent requirements

TYPE MPEAR

Metallised Polyester Capacitors

Licence: Condensateurs Fribourg S.A., Switzerland



Description:

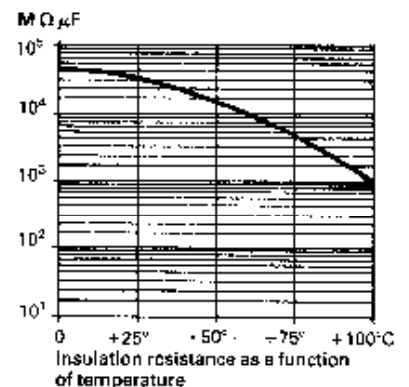
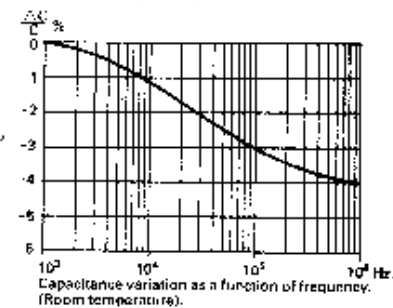
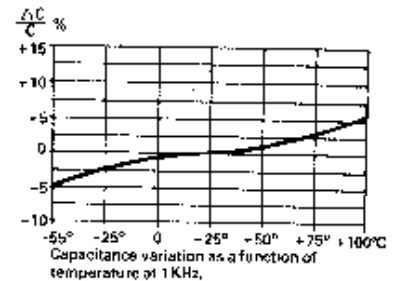
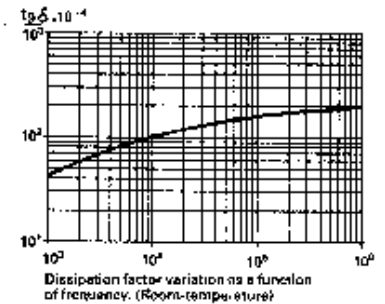
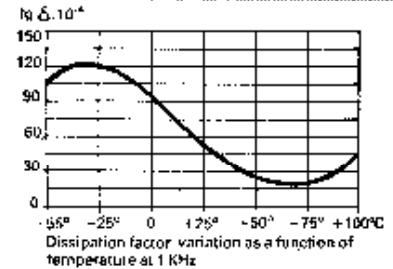
Polyester Capacitor using metallised polyethylene terephthalate film with self healing properties. Round configuration wrapped in Polyester adhesive tape and sealed with epoxy resin. These Capacitors are compact in size exhibiting long term stability. Used extensively in telecommunication equipment.

Technical Data:

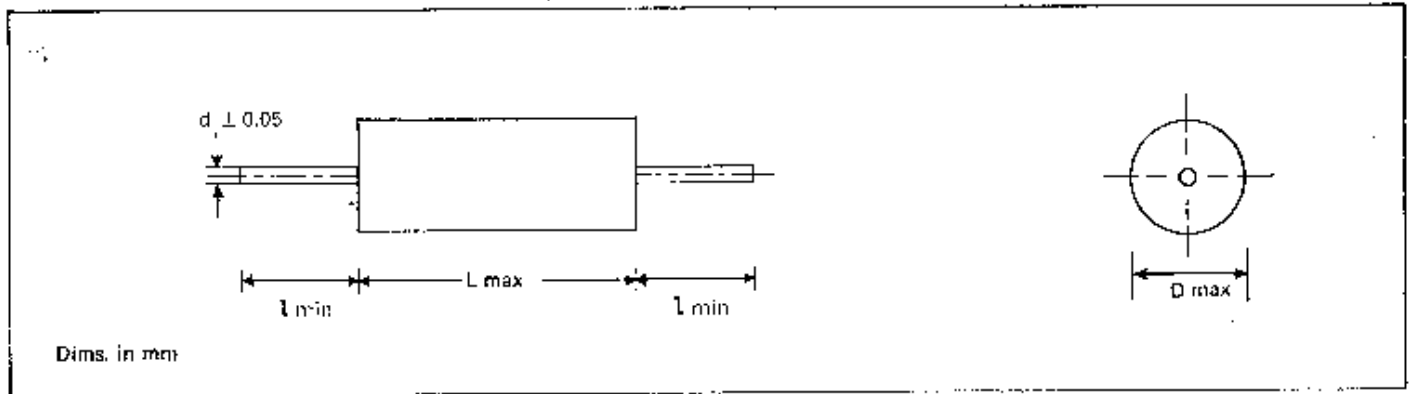
- Dielectric:** Polyethylene Terephthalate
- Capacitor Electrodes:** Metallised Plastic Film
- Encapsulation:** Wrapped in Polyester adhesive tape and sealed with epoxy resin.
- Temperature Range:** -55°C + 125°C
- Insulation Resistance at 20°C**
 - Capacitance for rated voltage $V_r > 100V$
 - $\leq 0.33 \mu F \approx 3 \times 10^4$ megohms.
 - $> 0.33 \mu F \approx 1 \times 10^4$ secs.
 - Capacitance for rated voltage $V_r \leq 100V$
 - $\leq 0.33 \mu F \approx 1.5 \times 10^4$ megohms
 - $> 0.33 \mu F \approx 5 \times 10^3$ secs
- Power Factor:**

Frequency	$C \leq 0.1 \mu F$	$0.1 \mu F < C \leq 1 \mu F$	$C > 1 \mu F$
1 KHz	$\leq 80 \times 10^{-4}$	$\leq 80 \times 10^{-4}$	$\leq 100 \times 10^{-4}$
10 KHZ	$\leq 150 \times 10^{-4}$	$\leq 150 \times 10^{-4}$	
100 KHZ	$\leq 300 \times 10^{-4}$		
- D.C. Voltage derating:** A voltage derating factor of 1.66% per °C must be applied for operation at temperatures above + 85 °C
- Long term stability:** < 2% over 2 years for temperature range + 20 °C to 40 °C
- Reference standard:** IEC publication 384.2
JSS publication 50204, CPM 07
- Capacitance Tolerance:** $\pm 10\%$ + 20% and close tolerance on request.
- Test Voltage:** 1.6x Rated Voltage
- Climatic Category:** 55/125/56
- Maximum Pulse Rise Time in μs :**

Rated Voltage	Capacitor length in mm.			
63v	16.5	20.5	28	33
100v	4	2	1.5	1
250v	5	3	2	1
400v	10	7	4	2.5
630v	13.5	10	6.5	4
1000v	20	15	10	6
	50	30	15	10
- Cross reference:** Arcotronics MKT 1.50



Dimensions



General Data

Capacity in Mfd	63VDC/40VAC				100VDC/63VAC				250VDC/160VAC				400VDC/200VAC				630VDC/220VAC				1000VDC/250VAC			
	D	L	d	l	D	L	d	l	D	L	d	l	D	L	d	l	D	L	d	l	D	L	d	l
0.0047																	6	16.5	0.6	25	6	20.5	0.6	25
0.0068													6	16.5	0.6	25	6	16.5	0.6	25	6.5	20.5	0.6	25
0.01													6	16.5	0.6	25	6	16.5	0.6	25	7	20.5	0.6	25
0.016													6	16.5	0.6	25	6.5	16.5	0.6	25	8	20.5	0.6	25
0.022													6	16.5	0.6	25	7	16.5	0.6	25	9.5	20.5	0.8	25
0.033									6	16.5	0.6	25	6.5	16.5	0.6	25	7.5	20.5	0.6	25	11	20.5	0.8	25
0.047									6	16.5	0.6	25	7	16.5	0.6	25	8	20.5	0.6	25	12.5	20.5	0.8	25
0.068									6	16.5	0.6	25	7	20.5	0.6	25	9	20.5	0.6	25	11.5	28	0.8	25
0.1	6	16.5	0.6	25	6	16.5	0.6	25	6.5	16.5	0.6	25	8	20.5	0.6	25	8.5	28	0.6	25	13.5	28	0.8	25
0.15	6	16.5	0.6	25	6	16.5	0.6	25	7.5	16.5	0.6	25	9	20.5	0.6	25	10	28	0.8	25	14.5	33	0.8	25
0.22	6	16.5	0.6	25	7	16.5	0.6	25	8.5	16.5	0.6	25	8.5	28	0.6	25	11.5	28	0.8	25	17	33	0.8	25
0.33	6.5	16.5	0.6	25	7.5	16.5	0.6	25	8.5	20.5	0.6	25	10	28	0.8	25	13	33	0.8	25	20	33	0.8	25
0.47	7.5	16.5	0.6	25	7.5	20.5	0.6	25	9.5	20.5	0.8	25	11.5	28	0.8	25	15	33	0.8	25				
0.68	7	20.5	0.6	25	8.5	20.5	0.6	25	9	28	0.8	25	12.5	33	0.8	25	17.5	33	0.8	25				
1.0	6	20.5	0.6	25	10	20.5	0.8	25	10.5	28	0.8	25	14.5	33	0.8	25	20.5	33	0.8	25				
1.5	9.5	20.5	0.6	25	10	28	0.8	25	12	28	0.8	25	17.5	33	0.8	25								
2.2	9.5	28	0.8	25	11.5	28	0.8	25	13.5	33	0.8	25	20.5	33	0.8	25								
3.3	11.5	28	0.8	25	13.5	28	0.8	25	16	33	0.8	25												
4.7	13	28	0.8	25	15	33	0.8	25	18.5	33	0.8	25												
6.8	14	33	0.8	25	17.5	33	0.8	25	21.5	33	0.8	25												
10.0	16.5	33	0.8	26	20.5	33	0.8	25																

Order Information

MPE A R
0.47/K/100

Metallised Polyester
 Axial Leads
 Round Configuration

Rated D.C. Voltage
 Tolerance Code²
 Capacitance Code¹

¹ Capacitance value, in microfarads.
² F = ± 1%, G = ± 2%, H = ± 2.5%, J = ± 5%, K = ± 10%, M = ± 20%