MMT SERIES — STACKED METALLIZED POLYESTER

Electrical Specifications

Temp. Range	-40 to +85ºC
Rated Voltage	50 V DC
Capacitance	0.010 to 3.3µF (E-12)
Cap. Tolerance	±5% (J)
tgδ	0.01 max. (at 1KHz)
Insulation Resistance	C≤0.33µF 3,000 MΩ min.
	C>0.33µF 1,000 ΩF min.

Life Test

85ºC WV x 140% 1000 hours

Δc/c <±7%

tgδ <.011

IR ≤.33µF >1000MΩ >.33µF >300ΩF

Damp Heat

40ºC 90-95% RH WV 1000 hours

Δc/c ±7%

tgδ <.011

IR ≤.33µF >100MΩ >.33µF >30ΩF

Markings

103 to 334	104 Ⓐ	cap – date code
>334	474 Ⓝ Ⓐ	cap logo – date code

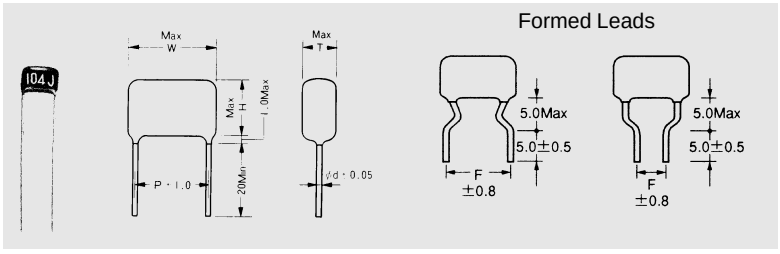
Mechanical Characteristics

Construction	Stacked, Metallized Polyester Film, Epoxy Dipped
Color	Blue
Packaging	Taped or Bulk. See page 11 for taping specifications.
Part Number Sequence	See page 14.

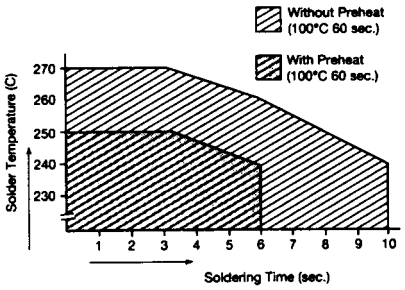
Soldering Resistance

Because soldering allows for thermal conduction through the capacitor lead wires into the capacitor itself, extreme care should always be taken in maintaining the proper soldering parameters. The figures below give examples of recommended time/temperature soldering profiles for use with the MMT Series. When dipped twice in the solder bath, the second dipping must be after the capacitor surface temperature comes down to room temperature (around 30 min. by natural cooling).

Drawings



Soldering Conditions



Dimensions (mm)

Series MMT (E-12)	WV / Cap(µF)	MMT 50 V. DC						MMT 63 V. DC					
		W	H	T	P	F	Ød	W	H	T	P	F	Ød
103	0.010	7.3	5.0	3.2	5.0	5.0	0.5	8.0	5.0	3.2	5.0	5.0	0.5
123	0.012	7.3	5.0	3.2	5.0	5.0	0.5	8.0	5.0	3.2	5.0	5.0	0.5
153	0.015	7.3	5.0	3.2	5.0	5.0	0.5	8.0	5.0	3.2	5.0	5.0	0.5
183	0.018	7.3	5.0	3.2	5.0	5.0	0.5	8.0	5.0	3.2	5.0	5.0	0.5
223	0.022	7.3	5.0	3.2	5.0	5.0	0.5	8.0	5.0	3.2	5.0	5.0	0.5
273	0.027	7.3	5.0	3.2	5.0	5.0	0.5	8.0	5.0	3.2	5.0	5.0	0.5
333	0.033	7.3	5.0	3.2	5.0	5.0	0.5	8.0	5.0	3.2	5.0	5.0	0.5
393	0.039	7.3	5.0	3.2	5.0	5.0	0.5	8.0	5.0	3.2	5.0	5.0	0.5
473	0.047	7.3	5.0	3.2	5.0	5.0	0.5	8.0	5.0	3.2	5.0	5.0	0.5
563	0.056	7.3	5.0	3.2	5.0	5.0	0.5	8.0	5.0	3.2	5.0	5.0	0.5
683	0.068	7.3	5.0	3.2	5.0	5.0	0.5	8.0	5.0	3.2	5.0	5.0	0.5
823	0.082	7.3	5.0	3.2	5.0	5.0	0.5	8.0	5.0	3.2	5.0	5.0	0.5
104	0.10	7.3	5.0	3.2	5.0	5.0	0.5	8.0	5.0	3.2	5.0	5.0	0.5
124	0.12	7.3	5.0	3.2	5.0	5.0	0.5	8.0	5.0	3.2	5.0	5.0	0.5
154	0.15	7.3	5.5	3.5	5.0	5.0	0.5	8.0	5.5	3.5	5.0	5.0	0.5
184	0.18	7.3	5.5	4.0	5.0	5.0	0.5	8.0	5.5	3.5	5.0	5.0	0.5
224	0.22	7.3	5.5	4.3	5.0	5.0	0.5	8.0	5.5	3.8	5.0	5.0	0.5
274	0.27	7.3	6.5	4.3	5.0	5.0	0.5	8.0	6.5	4.3	5.0	5.0	0.5
334	0.33	7.3	6.5	4.8	5.0	5.0	0.5	8.0	6.5	4.5	5.0	5.0	0.5
394	0.39	7.3	7.0	5.0	5.0	5.0	0.5	8.0	7.0	5.0	5.0	5.0	0.5
474	0.47	7.3	8.0	5.5	5.0	5.0	0.5	8.0	8.0	5.0	5.0	5.0	0.5
564	0.56	7.3	8.0	5.8	5.0	5.0	0.5	8.0	10.0	4.3	5.0	5.0	0.5
684	0.68	7.3	8.0	6.5	5.0	5.0	0.5	8.0	10.0	4.5	5.0	5.0	0.5
824	0.82	7.3	9.5	6.5	5.0	5.0	0.5	8.0	11.0	5.0	5.0	5.0	0.5
105	1.0	7.3	9.5	7.5	5.0	5.0	0.5	8.0	11.0	5.3	5.0	5.0	0.5
125	1.2	10.0	9.5	5.5	7.5	5.0	0.5	11.0	10.0	4.7	7.5	5.0	0.5
155	1.5	10.0	9.5	6.5	7.5	5.0	0.5	11.0	11.0	5.0	7.5	5.0	0.5
185	1.8	10.0	11.0	6.5	7.5	5.0	0.5	11.0	11.0	5.5	7.5	5.0	0.5
225	2.2	10.0	11.0	7.0	7.5	5.0	0.5	11.0	12.0	6.0	7.5	5.0	0.5
275	2.7	10.0	13.5	7.0	7.5	5.0	0.5	11.0	13.5	6.5	7.5	5.0	0.5
335	3.3	10.0	13.5	8.0	7.5	5.0	0.5	11.0	13.5	7.0	7.5	5.0	0.5

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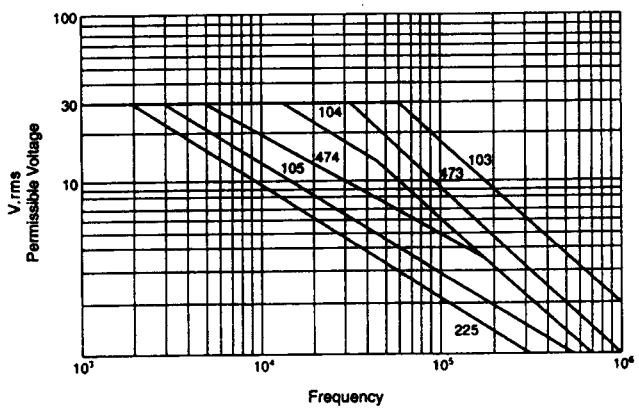
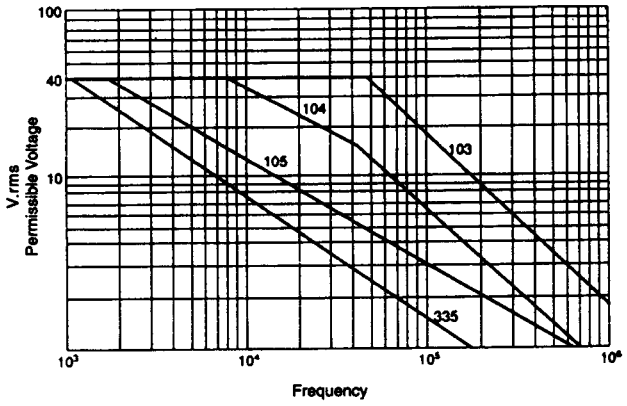
Voltage derating vs. frequency

MMT 50V

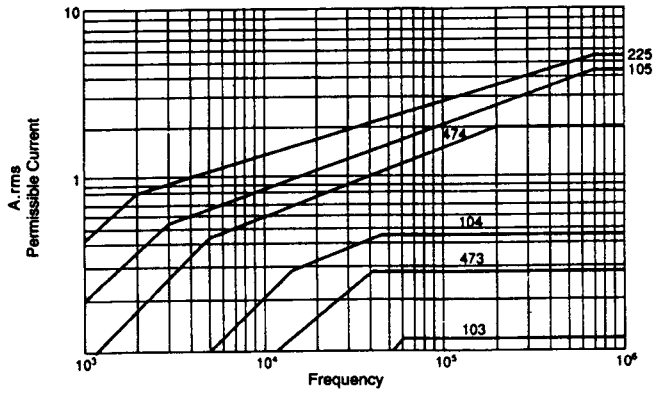


MMT 63V

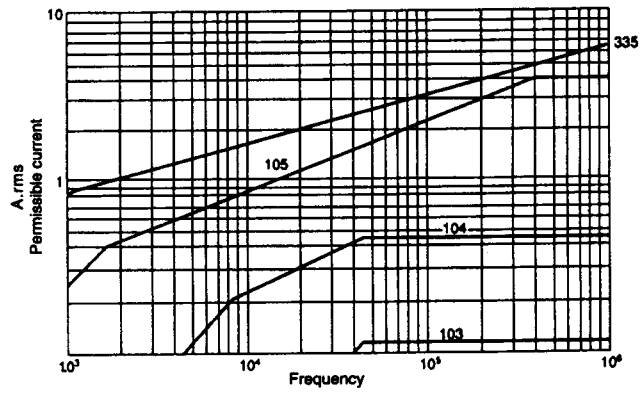


Permissible current vs. frequency

MMT 50V

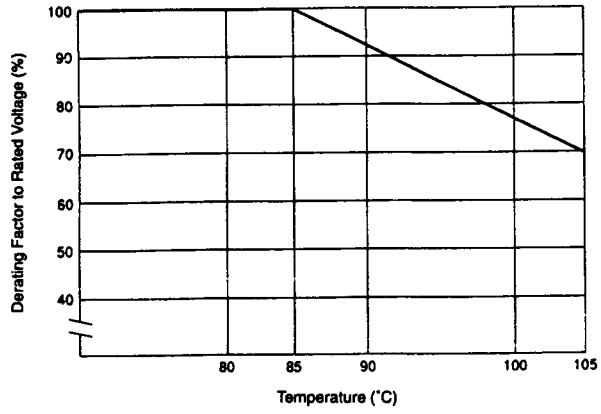


MMT 63V



Voltage derating vs. temperature

MMT 50, 63V



PEAK CURRENT RATINGS

SEE PAGE 8