



Founded over 30 years ago in 1994, ETR Electronics Co., Ltd. is a world - renowned producer of film capacitors and chip LEDs. ETR factories are ISO9001 & 14000 certified while ETR products are approved by UL and VDE, with AC-use capacitors patented and DC-use capacitors covering a wide range of high frequencies and high voltages. With increasing globalization, ETR Electronics serves a fast growing market worldwide. Former clients include LEO and CDE (Cornell Dubilier Electronics). Current ETR clientele includes SONY, LG, National, Canon, APC, Bosch, B&D, Askey and HP.

**TYPE:MPM**

are constructed with special series metalized polypropylene film dielectric, tinned copper wire leads and flame retardant epoxy resin coating, in non-inductive type.

**FEATURES:**

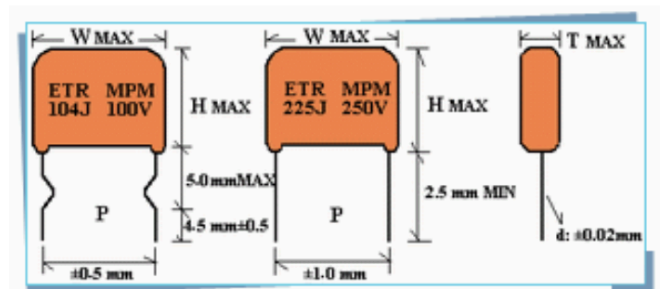
- Self-healing property.
- High corona starting voltage(c.s.v).
- Low DF and inherent temperature rise.
- High current rating and right dv/dt.
- High reliability and excellent long term stability.
- Flame retardant epoxy resin coating(UL-class 94V-0).

**APPLICATIONS:**

They are ideal for high frequency and high pulse circuits, such as TV or computer monitor horizontal resonance circuits, electric ballast, switching power supplies, etc.

**SPECIFICATION:**

- |                               |                          |
|-------------------------------|--------------------------|
| 1. Operating temperature      | : -40°C ~ +85°C          |
| 2. Capacitance range          | : .001uF ~ .068uF        |
| 3. Capacitance tolerance      | : J=±5%, K=±10%, M=±20%. |
| 4. Rated voltage (RV)         | : 1000, 1600, 2000VDC.   |
| 5. Dissipation factor (DF)    | : .1% max at 1KHz 25°C   |
| 6. Testing voltage (TV)       | : 160% of RV for 60sec   |
| 7. Insulation resistance (IR) | : ≥50000MΩ (at 25°C)     |
- \* measured at 100Vdc 1 minute.



**DIMENSIONS:**

unit:mm

RV	1000VDC					1600VDC					2000VDC				
size	W	H	T	P	dφ	W	H	T	P	dφ	W	H	T	P	dφ
cap.	max	max	max	±1.0		max	max	max	±1.0		max	max	max	±1.0	
.0010	18.5	11.0	7.5	15.0	0.8	18.5	11.0	7.5	15.0	0.8	18.5	13.0	8.0	15.0	0.8
.0012	18.5	11.5	8.0	15.0	0.8	18.5	11.5	0.8	15.0	0.8	18.5	13.5	8.5	15.0	0.8
.0015	18.5	13.0	8.0	15.0	0.8	18.5	13.0	0.8	15.0	0.8	18.5	14.5	9.0	15.0	0.8
.0018	18.5	13.5	8.0	15.0	0.8	18.5	13.5	0.8	15.0	0.8	18.5	15.0	9.5	15.0	0.8
.0022	18.5	10.0	6.5	15.0	0.8	18.5	14.0	9.0	15.0	0.8	22.0	17.5	9.5	17.5	0.8
.0027	18.5	10.5	7.0	15.0	0.8	18.5	16.0	9.0	15.0	0.8	22.0	17.5	10.0	17.5	0.8
.0033	18.5	11.0	7.5	15.0	0.8	22.0	14.0	9.0	17.5	0.8	22.0	18.5	10.5	17.5	0.8
.0039	18.5	11.5	8.0	15.0	0.8	22.0	14.5	9.5	17.5	0.8	22.0	19.5	11.0	17.5	0.8
.0047	18.5	12.0	8.0	15.0	0.8	22.0	15.0	10.0	17.5	0.8	22.0	19.0	12.0	17.5	0.8
.0056	18.5	13.0	8.0	15.0	0.8	22.0	16.0	10.5	17.5	0.8	22.0	19.5	12.5	17.5	0.8
.0068	18.5	14.0	9.0	15.0	0.8	22.0	17.5	11.0	17.5	0.8	23.5	19.0	11.5	20.0	0.8
.0082	18.5	15.0	9.5	15.0	0.8	22.0	18.5	12.0	17.5	0.8	23.5	19.5	13.0	20.0	0.8
.010	18.5	15.0	10.0	15.0	0.8	23.5	17.5	12.5	20.0	0.8	23.5	22.0	13.0	20.0	0.8
.012	18.5	16.0	11.0	15.0	0.8	23.5	18.0	13.0	20.0	0.8	23.5	23.0	14.0	20.0	0.8
.015	22.0	15.5	10.5	17.5	0.8	23.5	20.5	14.0	20.0	0.8	26.5	23.0	14.5	22.5	0.8
.018	22.0	17.0	11.0	17.5	0.8	23.5	22.5	15.0	20.0	0.8	26.5	24.0	16.0	22.5	0.8
.022	22.0	18.0	11.5	17.5	0.8	26.5	22.5	15.0	22.5	0.8	26.5	25.5	17.5	22.5	0.8
.027	23.5	18.0	11.0	20.0	0.8	26.5	24.5	15.5	22.5	0.8					
.033	23.5	19.0	12.0	20.0	0.8	26.5	27.0	16.5	22.5	0.8					
.039	23.5	20.0	12.0	20.0	0.8										
.047	23.5	21.5	13.0	20.0	0.8										
.056	26.5	22.0	13.0	22.5	0.8										
.068	26.5	22.5	14.0	22.5	0.8										

Size info subject to change without notice.

**Actual Dimensions of ETR MPM Film Capacitors**  
**Inventory of JustRadios Capacitors & Resistors**  
**(Authorized ETR Capacitor Dealer)**

Part #	Volts DC	uF Size	Tolerance	Color	Body			Pitch	Lead	
					Width	Height	Thickness		Length	Diameter
MPM102K1600V	1600 Volts	.001uF	10%	Orange	17.5	8.5	4.5	17	34	0.8
MPM152K1600V	1600 Volts	.0015uF	10%	Brown	17.5	11.5	7	16	28	0.8
MPM222K1600V	1600 Volts	.0022uF	10%	Orange	17.5	9.5	5	17	34	0.8
MPM332K1600V	1600 Volts	.0033uF	10%	Orange	17.5	10	5.5	17	34	0.8
MPM472K1600V	1600 Volts	.0047uF	10%	Orange	17.5	11.5	7	17	34	0.8
MPM682K1600V	1600 Volts	.0068uF	10%	Orange	17.5	12	8	17	34	0.8
MPM822K1600V	1600 Volts	.0082uF	10%	Orange	17.5	14	8	17	33	0.8
MPM103K1600V	1600 Volts	.01uF	10%	Orange	17.5	15	8.5	17	33	0.8
MPM153K1600V	1600 Volts	.015uF	10%	Orange	20.5	15.5	11	19.5	27	0.8
MPM203K1600V	1600 Volts	.02uF	10%	Orange	22	15	10	21	34	0.8
MPM303K1600V	1600 Volts	.03uF	10%	Orange	22	19	11	21	33	0.8
MPM503K1600V	1600 Volts	.05uF	10%	Brown	22.5	12	7	22	27	0.8
MPM104K2000V	2000 Volts	.1uF	10%	Orange	33	26	16.5	33	27	1

**All of the above body measurements, pitch and lead lengths are in mm and are +/- 2mm).**

*The above prepared by D. Cantelon of JustRadios (April 2025)*

[www.justradios.com](http://www.justradios.com)

