

## MML-E Series (Metallized polyphenylene sulfide film chip capacitor)

- Caseless high-performance and high-reliability film capacitor through improvement of solderability
- Use of a specific terminal construction provides high resistance to skewness and falling after board mounting, and to stress at board division.
- Suitable for the inverter power supply (50 Hz to 100 Hz) for back light in portable type PC, word processor, car navigation system, liquid crystal TV, touch panel, etc.
- Film capacitor for surface mounting with a small tan δ value and excellent temperature characteristics.
- Intended for reflow soldering

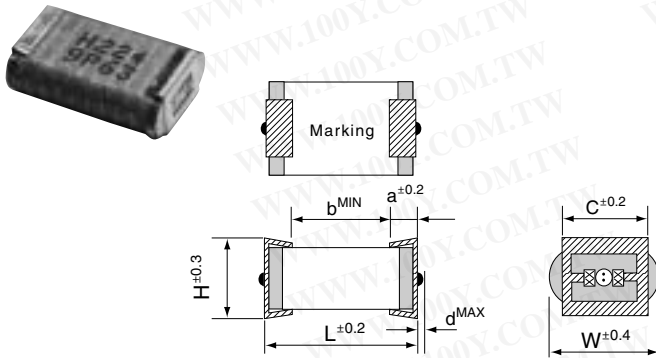
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### Product Specifications

Item	Specifications
Operating temperature range	-40°C ~ +105°C (+125°C, with derating over 105°C)
Rated voltage	100,250V.DC
Capacitance tolerance	±5%(J), ±10%(K)
Dissipation factor	0.15% or less (20°C, 1 kHz)
Withstanding voltage	Rated voltage · 1.5 for one min
Insulation resistance	15,000Mw or more
Solder heat resistance	Reflow : Peak 240°C for 5 sec. or less (Capacitor surface)

For soldering conditions for the chip capacitors, refer to page 99 and 100.

### Outline of drawings and dimensions



Product symbol: (Example) MML-E type 100 V.DC 0.22μF±10%

**MML-E 2A 224 K T F**

MML-E: Type of series  
 2A: Lead free terminal code  
 224: Capacitance code  
 K: Capacitance tolerance code  
 T: Packing method code  
 F: Rated voltage code

For taping of the MML-E type, refer to page 103.

### Standard value and case size (Unit : mm)

Capacitance		Rated voltage (code)													
		100V.DC / 63V.AC (2A)							250V.DC / 80V.AC (2E)						
μF	Code	H	W	L	a	b	c	d	H	W	L	a	b	c	d
0.010	103	2.5	5.4	7.9	1.2	4.8	4.3	0.3	2.5	5.4	7.9	1.2	4.8	4.3	0.3
0.012	123	2.5	5.5	7.9	1.2	4.8	4.3	0.3	2.5	5.5	7.9	1.2	4.8	4.3	0.3
0.015	153	2.5	5.4	7.9	1.2	4.8	4.3	0.3	2.5	5.4	7.9	1.2	4.8	4.3	0.3
0.018	183	2.5	5.5	7.9	1.2	4.8	4.3	0.3	2.5	5.5	7.9	1.2	4.8	4.3	0.3
0.022	223	2.5	5.5	7.9	1.2	4.8	4.3	0.3	2.5	5.5	7.9	1.2	4.8	4.3	0.3
0.027	273	2.5	5.7	7.9	1.2	4.8	4.3	0.3	2.5	5.7	7.9	1.2	4.8	4.3	0.3
0.033	333	2.5	5.5	7.9	1.2	4.8	4.3	0.3	3.0	6.0	7.9	1.2	4.8	4.3	0.3
0.039	393	2.5	5.7	7.9	1.2	4.8	4.3	0.3	3.0	6.2	7.9	1.2	4.8	4.3	0.3
0.047	473	2.5	5.4	7.9	1.2	4.8	4.3	0.3	3.3	6.6	7.9	1.2	4.8	4.3	0.3
0.056	563	2.5	5.6	7.9	1.2	4.8	4.3	0.3	3.3	7.0	7.9	1.2	4.8	4.3	0.3
0.068	683	2.5	5.8	7.9	1.2	4.8	4.3	0.3	3.3	6.6	10.4	1.2	7.3	4.3	0.3
0.082	823	3.0	5.9	7.9	1.2	4.8	4.3	0.3	3.3	6.9	10.4	1.2	7.3	4.3	0.3
0.10	104	3.0	6.1	7.9	1.2	4.8	4.3	0.3	4.0	7.4	10.4	1.2	7.3	4.3	0.3
0.12	124	3.0	6.1	7.9	1.2	4.8	4.3	0.3							
0.15	154	3.3	6.5	7.9	1.2	4.8	4.3	0.3							
0.18	184	3.0	6.5	10.4	1.2	7.3	4.3	0.3							
0.22	224	3.3	7.0	10.4	1.2	7.3	4.3	0.3							

\* For ratings that are not described in the table, ask us for further information.