



MOULDED MICA CAPACITOR

Capacitance Tolerance

Capacitor can be supplied with tolerance $\pm 1\%$, 2% , 5% or 10% . However minimum capacitance tolerance is $0.5 \mu\text{F}$.

Capacitance measurement $\leq 1000 \mu\text{F}$ at 1 MHz .
Capacitance measurement $\geq 1000 \mu\text{F}$ at 1 KHz .

Operating Temperature

-55°C to $+125^\circ\text{C}$

Insulation Resistance:

For Capacitance $\leq 1000 \mu\text{F}$, more than 10^5 Mohm after i minute application of 100 Vdc at 25°C .

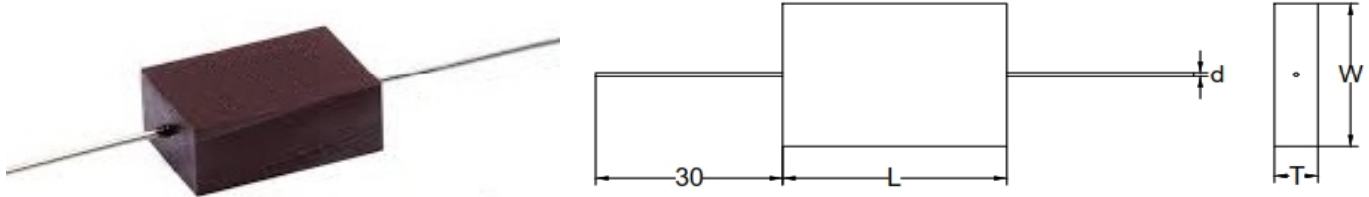
For Capacitance $\geq 1000 \mu\text{F}$, more than 10^4 Mohm after i minute application of 100 Vdc at 25°C

Withstanding Voltage: Capacitors shall withstand twice the rated voltage for 1 to 5 seconds without damage arcing or break down.

| Temperature Co-Efficient & Capacitance | | |
|-----------------------------------------------|-----------------------|-----------------------------|
| Capacitance | Measurement Frequency | Tangent of Loss Angel (max) |
| $C \leq 10 \mu\text{F}$ | 1 MHz . | 0.01 |
| $C > 10 \mu\text{F}$ to $\leq 25 \mu\text{F}$ | 1 Mhz . | 0.007 |
| $C > 25 \mu\text{F}$ $\leq 100 \mu\text{F}$ | 1 MHz . | 0.003 |
| $C > 100 \mu\text{F}$ $\leq 1000 \mu\text{F}$ | 1 Mhz . | 0.001 |
| $C > 1000 \mu\text{F}$ | 1 Khz . | 0.001 |

| Dimensions | | |
|-----------------------------------------------|-----------------------------------------------|---------------------------------|
| Capacitance | Temperature Co-Efficient PPM $^\circ\text{C}$ | Capacitance Drift |
| $C \leq 50 \mu\text{F}$ | -200 to $+200$ | $\pm(0.5\% + 0.1 \mu\text{F})$ |
| $C > 50 \mu\text{F}$ to $\leq 25 \mu\text{F}$ | -100 to $+100$ | $\pm(0.3\% + 0.1 \mu\text{F})$ |
| $C > 25 \mu\text{F}$ $\leq 100 \mu\text{F}$ | -20 to $+100$ | $\pm(0.1\% + 0.1 \mu\text{F})$ |
| $C > 1000 \mu\text{F}$ | 0 to $+70$ | $\pm(0.05\% + 0.1 \mu\text{F})$ |

A X I A L L E A D T Y P E



| Type | Capacitance (μF) | DC Working Voltage | Dimensions in MM | | | |
|---------|-------------------------------|--------------------|------------------|-------|-------|-------|
| | | | L Max | W Max | T Max | D max |
| MM - 15 | 100 - 300 | 10000 | 36 | 26 | 7 | 0.8 |
| | 100 - 500 | 5000 | 36 | 26 | 7 | 0.8 |
| | 1 - 250 | 500 | 14 | 8 | 5 | 0.65 |
| | 251 - 750 | 300 | 14 | 8 | 5 | 0.65 |
| | 751 - 1000 | 100 | 14 | 8 | 5 | 0.65 |
| MM - 20 | 300 - 500 | 10000 | 36 | 26 | 7 | 0.8 |
| | 1000 - 1200 | 5000 | 36 | 26 | 7 | 0.8 |
| | 47 - 510 | 500 | 20 | 12 | 6 | 0.65 |
| | 511 - 3300 | 300 | 20 | 12 | 6 | 0.65 |
| | 3301 - 5100 | 100 | 20 | 12 | 6 | 0.65 |
| MM - 30 | 500 - 1200 | 10000 | 36 | 26 | 7 | 0.8 |
| | 1100 - 2400 | 5000 | 36 | 26 | 7 | 0.8 |
| | 470 - 3300 | 500 | 21.5 | 21.5 | 7.5 | 1.1 |
| | 3301 - 5600 | 300 | 21.5 | 21.5 | 7.5 | 1.1 |
| | 5601 - 10000 | 100 | 21.5 | 21.5 | 7.5 | 1.1 |
| MM - 35 | 2500 - 10000 | 10000 | 45 | 30 | 10 | 0.8 |
| | 2500 - 20000 | 5000 | 45 | 30 | 10 | 0.8 |
| | 3300 - 5600 | 500 | 21.5 | 21.5 | 9 | 1.1 |
| | 5601 - 10000 | 300 | 21.5 | 21.5 | 9 | 1.1 |
| | 10001 - 15000 | 100 | 21.5 | 21.5 | 9 | 1.1 |

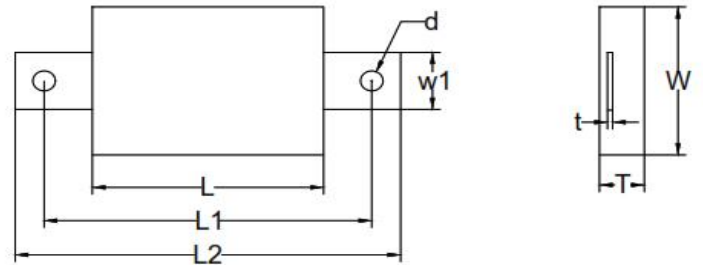
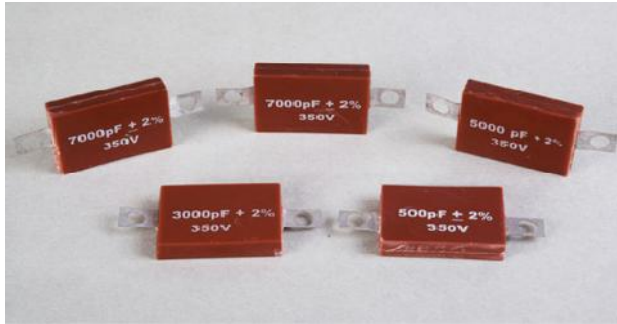
* Capacitance of higher working voltage & beyond the range can be supplied against specific enquiries.

* customized dimension could be available as per request.



MOULDED MICA CAPACITOR

FLAT TERMINAL TYPE



| TYPE | Maximum Dimensions in MM | | | | | | |
|--------|--------------------------|----|----|----|----|-----|-----|
| | L | L1 | L2 | W | W1 | t | Ød |
| FT - 1 | 36 | 51 | 60 | 25 | 10 | 0.3 | 3.5 |
| FT - 2 | 49 | 60 | 73 | 31 | 12 | 0.8 | 5 |

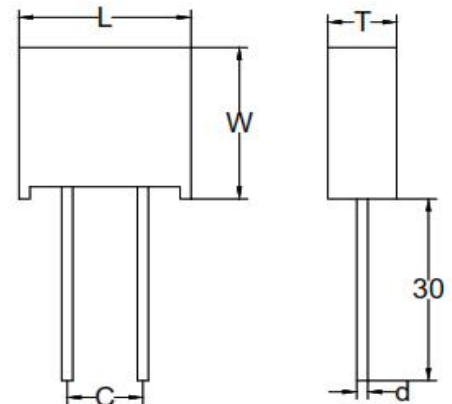
Capacitance Range for Different Voltage (DC)

| FT - 1 (pF) | | | FT - 2 (pF) | | Tmax (mm) |
|---------------------|---------------------|-----------------|---------------|---------------|-----------|
| 500 V | 1000 V | 2000 V | 3000 V | 5000 V | |
| 100 - 25,000 | 500 - 10,000 | 250 - 2,500 | 100 - 1,000 | 100 - 500 | 8.0 |
| 25,001 - 75,000 | 10,001 - 25,000 | 2,501 - 7,500 | 1,001 - 1,500 | 501 - 750 | 9.0 |
| 75,001 - 1,25,000 | 25,001 - 50,000 | 7,501 - 12,000 | 1,501 - 3,900 | 751 - 1,500 | 12.0 |
| 1,25,001 - 1,75,000 | 50,001 - 75,000 | 12,001 - 16,000 | 3,901 - 5,000 | 1,501 - 1,800 | 14.0 |
| 1,75,001 - 2,25,000 | 75,001 - 1,00,000 | 16,001 - 20,000 | 5,001 - 6,200 | 1,801 - 2,000 | 16.0 |
| 2,25,001 - 2,50,000 | 1,00,001 - 1,25,000 | 20,001 - 25,000 | 6,201 - 7,500 | 2,001 - 2,200 | 18.0 |

* Capacitance of higher working voltage & beyond the range can be supplied against specific enquiries.

* customized dimension could be available as per request.

RADIAL LEAD TYPE



| Type | Capacitance (pF) | DC Working Voltage (Volt) | Maximum Dimension (MM) | | | | |
|---------|------------------|---------------------------|------------------------|------|------|------|-----|
| | | | L | W | T | C | d |
| MMR - 1 | 5 - 200 | 300 | 8.0 | 8.0 | 3.0 | 5.5 | 0.6 |
| MMR - 2 | 201 - 10,000 | 300 | 12.5 | 12.5 | 6.0 | 10.0 | 0.8 |
| MMR - 3 | 10,001 - 20,000 | 300 | 12.5 | 12.5 | 8.0 | 10.0 | 0.8 |
| MMR - 4 | 20,000 - 30,000 | 300 | 12.5 | 12.5 | 10.0 | 10.0 | 0.8 |

* Capacitance of higher working voltage & beyond the range can be supplied against specific enquiries.

* customized dimension could be available as per request.