

MMR

查询"475MMR100K"供应商

# Small Size Epoxy Dipped Radial Lead Metallized Polyester Film Capacitors



- Bypass
- Coupling

- Filtering
- Blocking

|                                                             |     |                                                                    |                                                       |     |     |
|-------------------------------------------------------------|-----|--------------------------------------------------------------------|-------------------------------------------------------|-----|-----|
| Operating Temperature Range                                 |     | -40°C to +105°C                                                    |                                                       |     |     |
| Capacitance Tolerance                                       |     | ±10% at 1kHz, 20°C                                                 |                                                       |     |     |
| Rated Voltage                                               | VDC | 100                                                                | 250                                                   | 400 | 630 |
|                                                             | VAC | 63                                                                 | 150                                                   | 200 | 220 |
|                                                             |     | For T> +85°C the applied voltage must be decreased by 1.25% per °C |                                                       |     |     |
| Dissipation Factor (max) at 20°C                            |     | Freq. (kHz)                                                        | Dissipation factor                                    |     |     |
|                                                             |     | 1                                                                  | 1.0%                                                  |     |     |
|                                                             |     | 10                                                                 | 1.5%                                                  |     |     |
| Insulation Resistance @20°C(<70% RH) for 1 minute at 100VDC |     | Capacitance                                                        | Insulation Resistance                                 |     |     |
|                                                             |     | ≤0.33 μF                                                           | 9,000 MΩ                                              |     |     |
|                                                             |     | >0.33 μF                                                           | 3,000 MΩ x μF                                         |     |     |
| Load Life Test                                              |     |                                                                    | 2,000 hours at 125% of rated VDC and at 85°C          |     |     |
|                                                             |     | Capacitance Change                                                 | ≤5% change from initial value.                        |     |     |
|                                                             |     | Dissipation Factor                                                 | ≤0.005 at 1kHz and 25°C                               |     |     |
|                                                             |     | Insulation Resistance                                              | ≥50%of minimum specification                          |     |     |
| Damp Heat Test                                              |     |                                                                    | 1000 hours at +40°C±2°C with 93% ±2%relative humidity |     |     |
|                                                             |     | Capacitance Change                                                 | ≤5% change from initial value.                        |     |     |
|                                                             |     | Dissipation Factor                                                 | ≤0.005 at 1kHz and 25°C                               |     |     |
|                                                             |     | Insulation Resistance                                              | ≥50%of minimum specification                          |     |     |
| Self-inductance                                             |     | ≤1 nH/mm along the capacitor pitch and lead wire length.           |                                                       |     |     |
| Dielectric Strength                                         |     | 160% of rated WVDC for 2 seconds at 20°C between the leads.        |                                                       |     |     |
| Capacitance Drift Factor                                    |     | ≤1.0% up to 40°C after 2 years                                     |                                                       |     |     |
| Temperature Coefficient                                     |     | +400 ppm/°C, ± 200ppm/°C                                           |                                                       |     |     |
| Dielectric                                                  |     | Polyester                                                          |                                                       |     |     |
| Electrodes                                                  |     | Vacuum deposited metal layers                                      |                                                       |     |     |
| Construction                                                |     | Extended metallized carrier film                                   |                                                       |     |     |
| Leads                                                       |     | Tinned copper wire                                                 |                                                       |     |     |
| Coating                                                     |     | Flame retardant epoxy sealed resin (UL 94V-O)                      |                                                       |     |     |

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## STANDARD PART LISTING

| Capacitance<br>( $\mu\text{F}$ ) | WVDC | ic <sup>®</sup> PART<br>NUMBER | dv/dt<br>(V/ $\mu\text{s}$ ) |
|----------------------------------|------|--------------------------------|------------------------------|
| 0.01                             | 250  | 103MMR250K                     | 80                           |
| 0.01                             | 400  | 103MMR400K                     | 190                          |
| 0.01                             | 630  | 103MMR630K                     | 200                          |
| 0.015                            | 250  | 153MMR250K                     | 80                           |
| 0.015                            | 400  | 153MMR400K                     | 190                          |
| 0.015                            | 630  | 153MMR630K                     | 200                          |
| 0.022                            | 250  | 223MMR250K                     | 80                           |
| 0.022                            | 400  | 223MMR400K                     | 190                          |
| 0.022                            | 630  | 223MMR630K                     | 200                          |
| 0.033                            | 250  | 333MMR250K                     | 80                           |
| 0.033                            | 400  | 333MMR400K                     | 190                          |
| 0.033                            | 630  | 333MMR630K                     | 200                          |
| 0.047                            | 250  | 473MMR250K                     | 80                           |
| 0.047                            | 400  | 473MMR400K                     | 160                          |
| 0.047                            | 630  | 473MMR630K                     | 200                          |
| 0.068                            | 250  | 683MMR250K                     | 80                           |
| 0.068                            | 400  | 683MMR400K                     | 160                          |
| 0.068                            | 630  | 683MMR630K                     | 90                           |
| 0.100                            | 250  | 104MMR250K                     | 80                           |

| Capacitance<br>( $\mu\text{F}$ ) | WVDC | ic <sup>®</sup> PART<br>NUMBER | dv/dt<br>(V/ $\mu\text{s}$ ) |
|----------------------------------|------|--------------------------------|------------------------------|
| 0.10                             | 400  | 104MMR400K                     | 160                          |
| 0.10                             | 630  | 104MMR630K                     | 90                           |
| 0.15                             | 250  | 154MMR250K                     | 80                           |
| 0.15                             | 400  | 154MMR400K                     | 65                           |
| 0.15                             | 630  | 154MMR630K                     | 90                           |
| 0.22                             | 250  | 224MMR250K                     | 110                          |
| 0.22                             | 400  | 224MMR400K                     | 65                           |
| 0.22                             | 630  | 224MMR630K                     | 90                           |
| 0.33                             | 250  | 334MMR250K                     | 110                          |
| 0.33                             | 400  | 334MMR400K                     | 65                           |
| 0.33                             | 630  | 334MMR630K                     | 35                           |
| 0.47                             | 250  | 474MMR250K                     | 45                           |
| 0.47                             | 400  | 474MMR400K                     | 65                           |
| 0.47                             | 630  | 474MMR630K                     | 35                           |
| 0.68                             | 250  | 684MMR250K                     | 45                           |
| 0.68                             | 400  | 684MMR400K                     | 30                           |
| 0.68                             | 630  | 684MMR630K                     | 35                           |
| 1.0                              | 100  | 105MMR100K                     | 30                           |
| 1.0                              | 250  | 105MMR250K                     | 45                           |

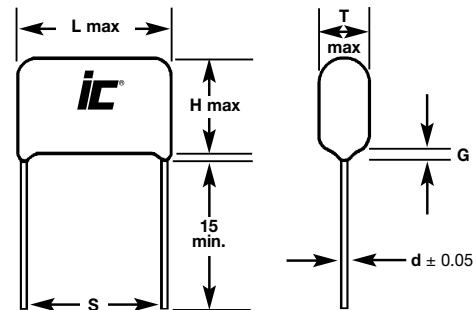
| Capacitance<br>( $\mu\text{F}$ ) | WVDC | ic <sup>®</sup> PART<br>NUMBER | dv/dt<br>(V/ $\mu\text{s}$ ) |
|----------------------------------|------|--------------------------------|------------------------------|
| 1.0                              | 400  | 105MMR400K                     | 30                           |
| 1.0                              | 630  | 105MMR630K                     | 30                           |
| 1.5                              | 100  | 155MMR100K                     | 20                           |
| 1.5                              | 250  | 155MMR250K                     | 45                           |
| 1.5                              | 400  | 155MMR400K                     | 25                           |
| 1.5                              | 630  | 155MMR630K                     | 30                           |
| 2.2                              | 100  | 225MMR100K                     | 20                           |
| 2.2                              | 250  | 225MMR250K                     | 20                           |
| 2.2                              | 400  | 225MMR400K                     | 25                           |
| 2.2                              | 630  | 225MMR630K                     | 30                           |
| 3.3                              | 100  | 335MMR100K                     | 20                           |
| 3.3                              | 250  | 335MMR250K                     | 20                           |
| 4.7                              | 100  | 475MMR100K                     | 10                           |
| 4.7                              | 250  | 475MMR250K                     | 20                           |
| 6.8                              | 100  | 685MMR100K                     | 10                           |
| 6.8                              | 250  | 685MMR250K                     | 15                           |
| 10.0                             | 100  | 106MMR100K                     | 10                           |
| 10.0                             | 250  | 106MMR250K                     | 15                           |

## PHYSICAL DIMENSIONS

| WVDC<br>(VAC)<br>$\mu\text{F}$ | 100<br>(63)   | 250<br>(150)  | 400<br>(200) | 630<br>(220)  |
|--------------------------------|---------------|---------------|--------------|---------------|
| 0.010                          | →             | 10.5x7.5x4.5  | 10.5x7.5x4.5 | 12x7.5x4.5    |
| 0.015                          | →             | 10.5x7.5x4.5  | 10.5x7.5x4.5 | 12x8.5x5      |
| 0.022                          | →             | 10.5x7.5x4.5  | 10.5x8x5     | 12x10.5x5.5   |
| 0.033                          | →             | 10.5x7.5x4.5  | 10.5x9x6     | 12x12x6       |
| 0.047                          | →             | 10.5x7.5x4.5  | 12x8.5x5     | 12x13.5x6.5   |
| 0.068                          | →             | 10.5x7.5x4.5  | 12x10.5x5.5  | 18.5x11x6     |
| 0.10                           | →             | 10.5x8.5x6    | 12x12x6.5    | 18.5x14x6.5   |
| 0.15                           | →             | 10.5x11x6     | 18.5x12.5x5  | 18.5x15.5x7.5 |
| 0.22                           | →             | 12x10.5x5.5   | 18.5x13x6    | 18.5x16.5x9   |
| 0.33                           | →             | 12x12x6.5     | 18.5x15x7    | 26x17x8       |
| 0.47                           | →             | 18.5x12.5x5.5 | 18.5x17x8    | 26x18.5x9.5   |
| 0.68                           | →             | 18.5x13.5x6   | 26x16.5x7    | 26x21x11.5    |
| 1.0                            | 12x14x7       | 18.5x15x7.5   | 26x18x8.5    | 31x22x12.5    |
| 1.5                            | 18.5x13.5x6   | 18.5x17x9     | 31x19x9.5    | 31x25x15.5    |
| 2.2                            | 18.5x15x7     | 26x16.5x8.5   | 31x22x11     | 31x29x19.5    |
| 3.3                            | 18.5x16.5x8.5 | 26x18x10.5    |              |               |
| 4.7                            | 26x17x7.5     | 26x21.5x12    |              |               |
| 6.8                            | 26x18.5x9     | 31x22.5x13    |              |               |
| 10.0                           | 26x21x11.5    | 31x26x16      |              |               |

Convert to inches, divide by 25.4

LxHxT(mm)



| WVDC | Capacitance<br>Range ( $\mu\text{F}$ )                | Lead Dia.<br>d    | Meniscus<br>G Max. |
|------|-------------------------------------------------------|-------------------|--------------------|
| 100  | $C \leq 6.8$<br>$C > 6.8$                             | 0.8<br>0.8        | 1.0<br>1.5         |
| 250  | $C \leq 0.47$<br>$0.68 \leq C \leq 2.2$<br>$C > 2.2$  | 0.6<br>0.8<br>0.8 | 1.0<br>1.0<br>1.5  |
| 400  | $C \leq 0.22$<br>$0.33 \leq C \leq 1.5$<br>$C > 1.5$  | 0.6<br>0.8<br>0.8 | 1.0<br>1.0<br>1.5  |
| 630  | $C \leq 0.1$<br>$0.15 \leq C \leq 0.47$<br>$C > 0.47$ | 0.6<br>0.8<br>0.8 | 1.0<br>1.0<br>1.5  |

mm

## Lead Spacing

(S  $\pm$  1.0mm)

| L | 10.5 | 12   | 18.5 | 26   | 31   |
|---|------|------|------|------|------|
| S | 7.5  | 10.0 | 15.0 | 22.5 | 27.5 |