

# Type M60 Y5U Multilayer Ceramic Capacitors

## Radial Leaded Noise Suppressor



The Type M60 conformally coated radial leaded multilayer ceramic capacitor is constructed with a general purpose Y5U material that has a maximum operating temperature from -55 °C to +125 °C. It is excellent for noise suppression in automotive applications.

### Highlights

- Conformally coated, radial leaded
- Ultra high insulation resistance
- Ultra High withstand voltage
- Excellent for noise suppression
- Great for automotive ignition noise suppression

## Specifications

## RoHS Compliant

**Capacitance Range:** 0.1  $\mu$ F to 100  $\mu$ F

**Voltage Range:** 25, 50, 100, 250 WVdc

**Capacitance Tolerance:**  $\pm$ 20%

**Temperature Coefficient:** Y5U

**Maximum Operating Temperature:** -55 °C to +125 °C

**Dissipation Factor:** 2.5%

**Insulation Resistance:**  $\geq$ 1000  $\Omega$  x  $\mu$ F or 10,000 M $\Omega$  whichever is less

**Withstand Voltage:** 250% of rated voltage is applied for 1 to 5 sec.

**Available in Tape and Ammo Pack Configuration:** Add 'TA' to end of catalog part number

**Maximum Ripple Current:**

| Length | .200 | .248 | .295 | .394 | .531 | .886 | 1.12 |
|--------|------|------|------|------|------|------|------|
| Arms   | 0.3  | 0.8  | 1.0  | 1.5  | 2.0  | 3.0  | 4.0  |

## Ratings

| Catalog Part Number | Cap $\mu$ F | Vdc | Temp. Coeff. | Size (Inches) |      |      |      |      |
|---------------------|-------------|-----|--------------|---------------|------|------|------|------|
|                     |             |     |              | L             | H    | T    | S    | d    |
| M60UR68M25-F        | .68         | 25  | Y5U          | .200          | .177 | .138 | .197 | .020 |
| M60U1M25-F          | 1.0         | 25  | Y5U          | .200          | .177 | .138 | .197 | .020 |
| M60U1R5M25-F        | 1.5         | 25  | Y5U          | .248          | .197 | .157 | .197 | .020 |
| M60U2R2M25-F        | 2.2         | 25  | Y5U          | .248          | .197 | .157 | .197 | .020 |
| M60U3R3M25-F        | 3.3         | 25  | Y5U          | .295          | .295 | .157 | .197 | .020 |
| M60U4R7M25-F        | 4.7         | 25  | Y5U          | .295          | .295 | .157 | .197 | .020 |
| M60U6R8M25-F        | 6.8         | 25  | Y5U          | .394          | .394 | .197 | .197 | .020 |
| M60U10M25-F         | 10          | 25  | Y5U          | .394          | .394 | .197 | .197 | .020 |
| M60U15M25-F         | 15          | 25  | Y5U          | .531          | .531 | .216 | .394 | .024 |
| M60U22M25-F         | 22          | 25  | Y5U          | .531          | .531 | .216 | .394 | .024 |
| M60U33M25-F         | 33          | 25  | Y5U          | .866          | .689 | .335 | .787 | .031 |
| M60U47M25-F         | 47          | 25  | Y5U          | .866          | .689 | .335 | .787 | .031 |
| M60U68M25-F         | 68          | 25  | Y5U          | 1.120         | .689 | .335 | .984 | .031 |
| M60U100M25-F        | 100         | 25  | Y5U          | 1.120         | .689 | .335 | .984 | .031 |
| M60UR10M50-F        | .10         | 50  | Y5U          | .200          | .177 | .138 | .197 | .020 |
| M60UR47M50-F        | .47         | 50  | Y5U          | .200          | .177 | .138 | .197 | .050 |
| M60UR68M50-F        | .68         | 50  | Y5U          | .248          | .197 | .157 | .197 | .020 |
| M60U1M50-F          | 1.0         | 50  | Y5U          | .248          | .197 | .157 | .197 | .020 |
| M60U1R5M50-F        | 1.5         | 50  | Y5U          | .295          | .295 | .157 | .197 | .020 |
| M60U3R3M50-F        | 3.3         | 50  | Y5U          | .295          | .295 | .157 | .197 | .020 |
| M60U4R7M50-F        | 4.7         | 50  | Y5U          | .394          | .394 | .197 | .197 | .020 |
| M60U6R8M50-F        | 6.8         | 50  | Y5U          | .394          | .394 | .197 | .197 | .020 |
| M60U1R5M50-F        | 10          | 50  | Y5U          | .531          | .531 | .216 | .394 | .024 |
| M60U15M50-F         | 15          | 50  | Y5U          | .531          | .531 | .216 | .394 | .024 |
| M60U22M50-F         | 22          | 50  | Y5U          | .866          | .689 | .335 | .787 | .031 |
| M60U33M50-F         | 33          | 50  | Y5U          | .866          | .689 | .335 | .787 | .031 |
| M60U47M50-F         | 47          | 50  | Y5U          | 1.120         | .689 | .335 | .984 | .031 |
| M60U68M50-F         | 68          | 50  | Y5U          | 1.120         | .689 | .335 | .984 | .031 |

| Catalog Part Number | Cap $\mu$ F | Vdc | Temp. Coeff. | Size (Inches) |      |      |      |      |
|---------------------|-------------|-----|--------------|---------------|------|------|------|------|
|                     |             |     |              | L             | H    | T    | S    | d    |
| M60UR10M100-F       | .10         | 100 | Y5U          | .200          | .177 | .138 | .197 | .020 |
| M60UR15M100-F       | .15         | 100 | Y5U          | .200          | .177 | .138 | .197 | .020 |
| M60UR22M100-F       | .22         | 100 | Y5U          | .200          | .177 | .138 | .197 | .020 |
| M60UR33M100-F       | .33         | 100 | Y5U          | .248          | .197 | .157 | .197 | .020 |
| M60UR47M100-F       | .47         | 100 | Y5U          | .248          | .197 | .157 | .197 | .020 |
| M60UR68M100-F       | .68         | 100 | Y5U          | .295          | .295 | .157 | .197 | .020 |
| M60U1M100-F         | 1.0         | 100 | Y5U          | .295          | .295 | .157 | .197 | .020 |
| M60U1R5M100-F       | 1.5         | 100 | Y5U          | .295          | .295 | .157 | .197 | .020 |
| M60U2R2M100-F       | 2.2         | 100 | Y5U          | .394          | .394 | .197 | .197 | .020 |
| M60U3R3M100-F       | 3.3         | 100 | Y5U          | .394          | .394 | .197 | .197 | .020 |
| M60U4R7M100-F       | 4.7         | 100 | Y5U          | .531          | .531 | .216 | .394 | .024 |
| M60U6R8M100-F       | 6.8         | 100 | Y5U          | .531          | .531 | .216 | .394 | .024 |
| M60U10M100-F        | 10          | 100 | Y5U          | .866          | .689 | .335 | .787 | .031 |
| M60U15M100-F        | 15          | 100 | Y5U          | .866          | .689 | .335 | .787 | .031 |
| M60U22M100-F        | 22          | 100 | Y5U          | 1.120         | .689 | .335 | .984 | .031 |
| M60U33M100-F        | 33          | 100 | Y5U          | 1.120         | .689 | .335 | .984 | .031 |
| M60UR10M250-F       | .10         | 250 | Y5U          | .248          | .197 | .157 | .197 | .020 |
| M60UR15M250-F       | .15         | 250 | Y5U          | .248          | .197 | .157 | .197 | .020 |
| M60UR22M250-F       | .22         | 250 | Y5U          | .295          | .295 | .157 | .197 | .020 |
| M60UR33M250-F       | .33         | 250 | Y5U          | .295          | .295 | .157 | .197 | .020 |
| M60UR47M250-F       | .47         | 250 | Y5U          | .394          | .394 | .197 | .197 | .020 |
| M60UR68M250-F       | .68         | 250 | Y5U          | .394          | .394 | .197 | .197 | .020 |
| M60U1M250-F         | 1.0         | 250 | Y5U          | .531          | .531 | .216 | .394 | .024 |
| M60U1R5M250-F       | 1.5         | 250 | Y5U          | .531          | .531 | .216 | .394 | .024 |
| M60U2R2M250-F       | 2.2         | 250 | Y5U          | .866          | .689 | .335 | .787 | .031 |
| M60U3R3M250-F       | 3.3         | 250 | Y5U          | .866          | .689 | .335 | .787 | .031 |
| M60U4R7M250-F       | 4.7         | 250 | Y5U          | 1.120         | .689 | .335 | .984 | .031 |
| M60U6R8M250-F       | 6.8         | 250 | Y5U          | 1.120         | .689 | .335 | .984 | .031 |

|                                                                  | Length | Qty Per Box |
|------------------------------------------------------------------|--------|-------------|
| 'TA' Ammo Pack, Full Boxes Only<br>Not available in larger sizes | .200   | 2,000       |
|                                                                  | .248   | 2,000       |
|                                                                  | .394   | 1,500       |