

# EIA Class 3, Semiconductor Type Disc Ceramic Capacitors

**MALLORY**



## Reduced Titanite

- Ideal in Transistorized Circuitry for Bypass and Coupling Applications
- Low Power Factor & Superior Radio Frequency Impedance Characteristics
- Meets RS-198C for Class 3 Ceramic Capacitors
- Radial Leads

## GENERAL SPECIFICATIONS

Temperature Range:  
-30°C to +85°C

Voltage Range:  
25 & 50 VDC

Capacitance Range:  
.01  $\mu$ F to .22  $\mu$ F

Lead Length: 1 inch minimum

Insulation Resistance:  
1 megohm (min)

Power Factor @ 1000 Hz:  
7.0% Max

Breakdown Voltage:  
2.5 x rated  
(5 seconds Max)

**\*\*Please note: Y5U Will no longer be available once stock is depleted. (2/23/05)**

| Capacity<br>μF | Tol | Temp<br>Coef | Size<br>(Inches) |      |      |      | Size<br>(Millimeters) |     |     |    | Catalog<br>Number |
|----------------|-----|--------------|------------------|------|------|------|-----------------------|-----|-----|----|-------------------|
|                |     |              | D                | T    | S    | d    | D                     | T   | S   | d  |                   |
| 25 WVDC        |     |              |                  |      |      |      |                       |     |     |    |                   |
| .010           | 20% | Y5R          | .235             | .138 | .250 | .025 | 6.0                   | 3.5 | 6.4 | .6 | LC103M            |
| .022           | 20% | Y5R          | .315             | .138 | .250 | .025 | 8.0                   | 3.5 | 6.4 | .6 | LC223M            |
| .033           | 20% | Y5R          | .350             | .138 | .250 | .025 | 8.9                   | 3.5 | 6.4 | .6 | LC333M            |
| .100           | 20% | Y5R          | .495             | .138 | .250 | .025 | 12.6                  | 3.5 | 6.4 | .6 | LC104M            |
| .220           | 20% | Y5U          | .495             | .138 | .250 | .025 | 12.6                  | 3.5 | 6.4 | .6 | LC224M            |

| Capacity<br>μF | Tol | Temp<br>Coef | Size<br>(Inches) |      |      |      | Size<br>(Millimeters) |     |     |    | Catalog<br>Number |
|----------------|-----|--------------|------------------|------|------|------|-----------------------|-----|-----|----|-------------------|
|                |     |              | D                | T    | S    | d    | D                     | T   | S   | d  |                   |
| 50 WVDC        |     |              |                  |      |      |      |                       |     |     |    |                   |
| .010           | 20% | Y5U          | .230             | .138 | .250 | .025 | 5.8                   | 3.5 | 6.4 | .6 | LE103M            |
| .022           | 20% | Y5U          | .290             | .138 | .250 | .025 | 7.4                   | 3.5 | 6.4 | .6 | LE223M            |
| .047           | 20% | Y5U          | .359             | .138 | .250 | .025 | 9.1                   | 3.5 | 6.4 | .6 | LE473M            |
| .100           | 20% | Y5U          | .484             | .138 | .250 | .025 | 12.3                  | 3.5 | 6.4 | .6 | LE104M            |



## Spark-Arrestor

- Radial Leads
- 1 Inch Leads (minimum)
- Lead Material  
Tinned Copper Wire

## GENERAL SPECIFICATIONS

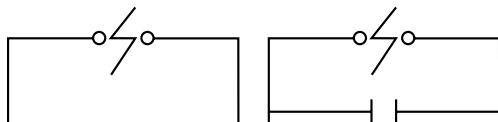
### Type 1 Spark-Arrestor

Consists of a wire loop encased in phenolic resin. After the loop has been encased, a precise slot is cut through the wire loop and its protective case to form a gap. Type 1 does not include a parallel disc ceramic.

### Type 2 Spark-Arrestor

A combination of a ceramic disc in parallel with the gap. Useful in either industrial or commercial applications which require bypassing of transient over voltages. The precise gap allows the stray transients to be harmlessly bypassed.

Temperature Characteristic = Z5U



Type 1

Type 2

| Capacity    | Voltage  | Type | Size<br>(Inches) |       |      |      | Size<br>(Millimeters) |      |     |    | Catalog<br>Number |
|-------------|----------|------|------------------|-------|------|------|-----------------------|------|-----|----|-------------------|
|             |          |      | D                | H     | S    | d    | D                     | H    | S   | d  |                   |
| 1 - 3 KVDC  |          |      |                  |       |      |      |                       |      |     |    |                   |
| * .75pF max | 1-2 KVDC | 1    | .350             | .500  | .250 | .032 | 8.9                   | 12.7 | 6.4 | .8 | ASR75A            |
| * .75pF max | 2-3 KVDC | 1    | .350             | .500  | .250 | .032 | 8.9                   | 12.7 | 6.4 | .8 | ATR75A            |
| # .01μF     | 2-3 KVDC | 2    | .770             | 1.000 | .375 | .032 | 19.6                  | 25.4 | 9.5 | .8 | AT103A            |

\* Inherent capacity of gap only. No parallel disc ceramic.

# Includes parallel disc ceramic. Tol. +80,-20%