# NTC THERMISTORS
## Calculating the Approximate Resistance

### ■ HOW TO DETERMINE THE APPROXIMATE RESISTANCE

To determine the approximate resistance of a thermistor operating at less than Imax, first determine the operating current ratio by dividing the actual operating current (Iop) by the respective Imax for the device being used.

Next, refer to the curve in Figure B, and multiply the corresponding "M" value by the RImax ratings for the thermistor which is be found in the specification table.

### ■ EXAMPLE: JNR10S100L

$$\frac{Iop}{Imax} = \frac{2.0 \text{ (assumed)}}{3.0} = .67 \quad \text{From Fig. B  M=1.6}$$
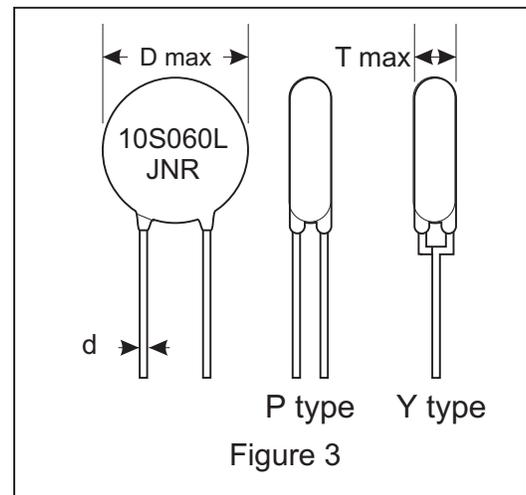
RImax From Spec Table = 0.290    (Page 3)

R ≃ .290 X 1.6 = .464
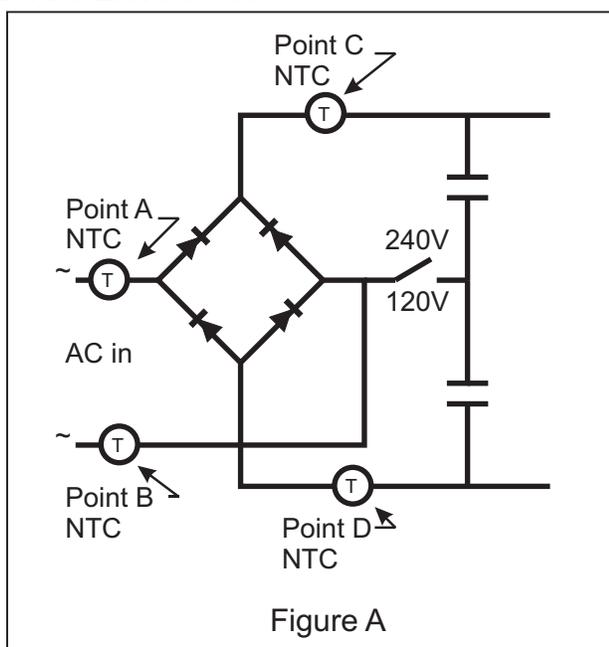
Packaging: Taping per EIA & JIS Specifications.

### ■ QUANTITY PER PACKAGE

| Element Size | Bulk (Box) | Tape & Reel Tape & Ammo |
|---|---|---|
| 8 | 2500 | 1000 |
| 10 | 2500 | 1000 |
| 13 | 2500 | 1000 |
| 15 | 2500 | 1000 |
| 20 | 1000 | 1000 |

### ■ PHYSICAL DIMENSIONS AND CONFIGURATION



Figure 3

### ■ APPLICATIONS



Figure A

### ■ RESISTANCE CURVE



Figure B