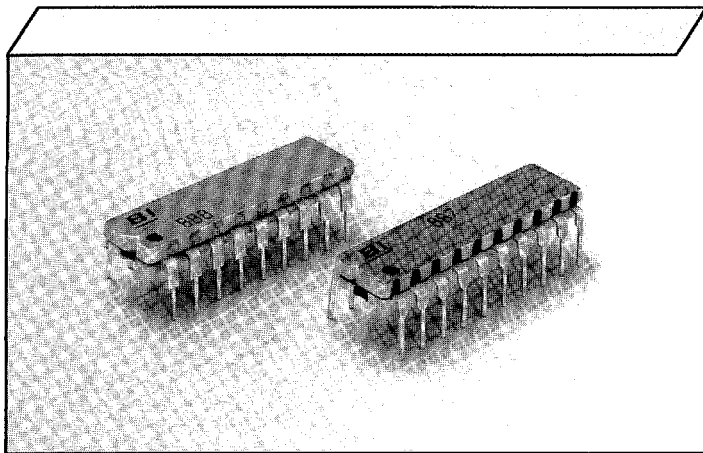


# Model 888, 887

## 18 & 20 Pin

### Dual In-Line

#### Thick Film Resistor Network



#### Electrical

|                                                         |                                                                                        |
|---------------------------------------------------------|----------------------------------------------------------------------------------------|
| Standard Resistance Range, Ohms                         | 22 to 2.2 Meg                                                                          |
| Standard Resistance Tolerance at 25°C                   | -1, -3 Circuits $\pm 2\%$<br>-5 Circuits $\pm 5\%$<br>( $\leq 33$ Ohms = $\pm 2$ Ohms) |
| Operating Temperature Range, °C                         | -55° to 125°                                                                           |
| Temperature Coefficient of Resistance, ppm/°C           | $\pm 100$ ( $< 100$ Ohms = $\pm 250$ )                                                 |
| Temperature Coefficient of Resistance, Tracking, ppm/°C | 50                                                                                     |
| Maximum Operating Voltage, Vdc                          | 100V or $\sqrt{PR}$                                                                    |
| Insulation Resistance, Ohms (Minimum)                   | 10,000 Meg                                                                             |

#### Mechanical

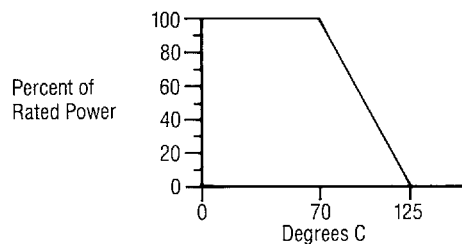
|                    |                                      |
|--------------------|--------------------------------------|
| Lead Material      | Copper Alloy, 60/40 Tin-Lead Plating |
| Substrate Material | Alumina                              |
| Resistor Material  | Cermet                               |

#### Environmental (Per MIL-R-83401)

|                                                                        |                             |
|------------------------------------------------------------------------|-----------------------------|
| Thermal Shock Plus Power Conditioning                                  | ( $\Delta R$ ) $\pm 0.70\%$ |
| Short Time Overload                                                    | ( $\Delta R$ ) $\pm 0.50\%$ |
| Terminal Strength                                                      | ( $\Delta R$ ) $\pm 0.25\%$ |
| Moisture Resistance                                                    | ( $\Delta R$ ) $\pm 0.50\%$ |
| Mechanical Shock                                                       | ( $\Delta R$ ) $\pm 0.25\%$ |
| Vibration Shock                                                        | ( $\Delta R$ ) $\pm 0.25\%$ |
| Low Temperature Storage                                                | ( $\Delta R$ ) $\pm 0.25\%$ |
| High Temperature Exposure                                              | ( $\Delta R$ ) $\pm 0.50\%$ |
| Load Life, 1,000 Hours                                                 | ( $\Delta R$ ) $\pm 1.00\%$ |
| Resistance to Soldering Heat<br>(Per MIL-STD-202, Method 210, Cond. B) | ( $\Delta R$ ) $\pm 0.25\%$ |
| Dielectric Withstanding Voltage, RMS                                   | 200V for 1 Minute           |
| Marking Permanency                                                     | Per Paragraph 4.6.7         |
| Lead Solderability                                                     | Per Paragraph 4.6.6         |
| Flammability                                                           | UL-94V-0 Rated              |
| Storage                                                                | -55°C to 125°C              |

Specifications subject to change without notice.

#### Power Derating Curve



#### Power (Watts) Dissipation @ 70°C

| Model | Package | Resistor (Per Circuit) |      |      |
|-------|---------|------------------------|------|------|
|       |         | -1                     | -3   | -5   |
| 887   | 2.50    | .125                   | .250 | .125 |
| 888   | 2.25    | .125                   | .250 | .125 |

#### Ordering Information

|                  |                                                   |   |     |      |   |     |   |                                                                                               |
|------------------|---------------------------------------------------|---|-----|------|---|-----|---|-----------------------------------------------------------------------------------------------|
| Model Series     | 88                                                | 7 | -5- | R220 | / | 330 | F | Tolerance Code<br>(If other than standard)<br>F = $\pm 1\%$<br>G = $\pm 2\%$<br>J = $\pm 5\%$ |
| Number of Leads  | 8 = 18 Leads<br>7 = 20 Leads                      |   |     |      |   |     |   |                                                                                               |
| Circuit Type     | 1 = Bussed<br>3 = Isolated<br>5 = Dual Terminator |   |     |      |   |     |   | R2 Resistance Value<br>Add for -5 circuit only                                                |
| Resistance Value |                                                   |   |     |      |   |     |   |                                                                                               |

#### Applicable Documents

|             |   |                                                             |
|-------------|---|-------------------------------------------------------------|
| MIL-R-83401 | — | Resistor Networks, Fixed, Film, General Specification       |
| MIL-STD-202 | — | Test Methods for Electronics and Electrical Component Parts |

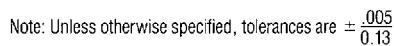
Approved to British Standard Specification BS9450 F0001.

**Beckman Industrial™**

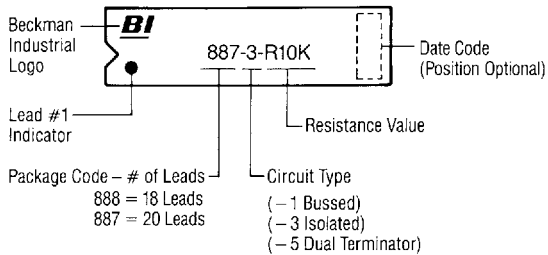
Affiliate of Emerson Electric Co.

**Networks**

## Outline Dimensions $\frac{\text{inches}}{\text{mm}}$



### Typical Part Marking



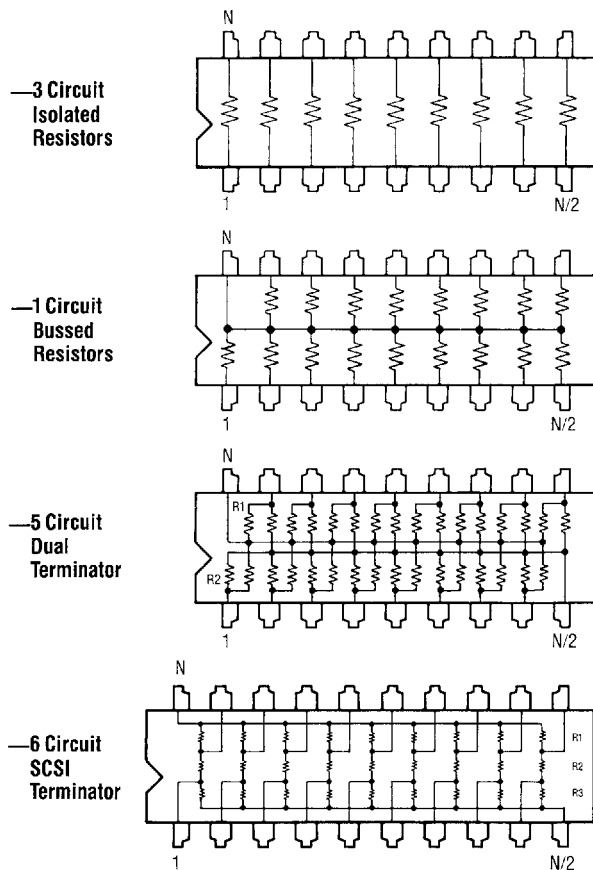
### **Packaging**

**Standard:** Magazine

All units oriented with lead #1 to the same side.  
Magazine: Material = Anti-Static Plastic  
Capacity, Units = 20

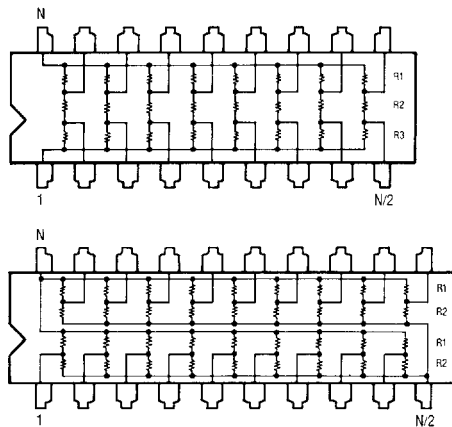
**Schematics:** Standard

888: N = 18 Leads  
887: N = 20 Leads



## Custom Capabilities

Circuits shown are representative of our custom circuit capability.  
Consult factory for additional applications.



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