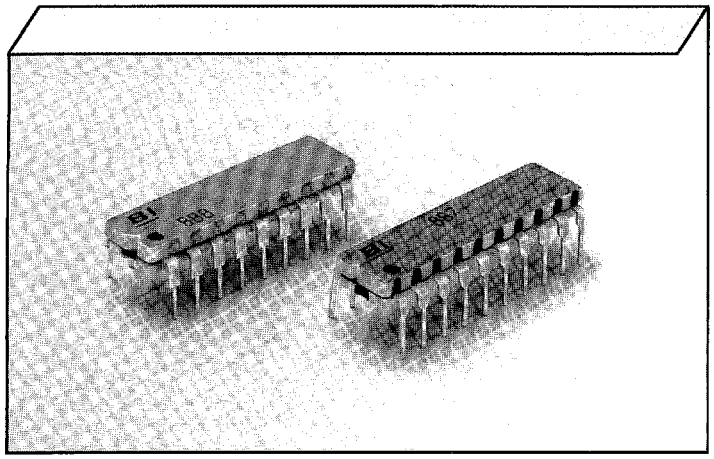


# Model 888, 887 18 & 20 Pin Dual In-Line

## Thick Film Resistor Network

### Electrical

| | |
|---|---|
| Standard Resistance Range, Ohms | 22 to 2.2 Meg |
| Standard Resistance Tolerance at 25°C | −1, −3 Circuits ±2%<br>−5 Circuits ±5%<br>(≤33 Ohms = ±2 Ohms) |
| Operating Temperature Range, °C | −55° to 125° |
| Temperature Coefficient of Resistance, ppm/°C | ±100 (<100 Ohms = ±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

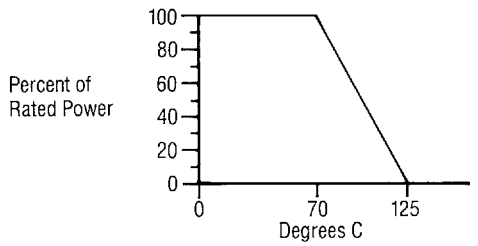
| | |
|---|---|
| Lead Material | Copper Alloy, 60/40 Tin-Lead Plating |
| Substrate Material | Alumina |
| Resistor Material | Cermet |

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

| | |
|---|---|
| Thermal Shock Plus Power Conditioning | (ΔR) ±0.70% |
| Short Time Overload | (ΔR) ±0.50% |
| Terminal Strength | (ΔR) ±0.25% |
| Moisture Resistance | (ΔR) ±0.50% |
| Mechanical Shock | (ΔR) ±0.25% |
| Vibration Shock | (ΔR) ±0.25% |
| Low Temperature Storage | (ΔR) ±0.25% |
| High Temperature Exposure | (ΔR) ±0.50% |
| Load Life, 1,000 Hours | (ΔR) ±1.00% |
| Resistance to Soldering Heat (Per MIL-STD-202, Method 210, Cond. B) | (ΔR) ±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

**88 7 -5- R220 / 330 F**

- Model Series
- Number of Leads
  - 8 = 18 Leads
  - 7 = 20 Leads
- Circuit Type
  - 1 = Bussed
  - 3 = Isolated
  - 5 = Dual Terminator
- Resistance Value
- R2 Resistance Value
  - Add for −5 circuit only
- Tolerance Code (If other than standard)
  - F = ±1%
  - G = ±2%
  - J = ±5%

### Applicable Documents

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

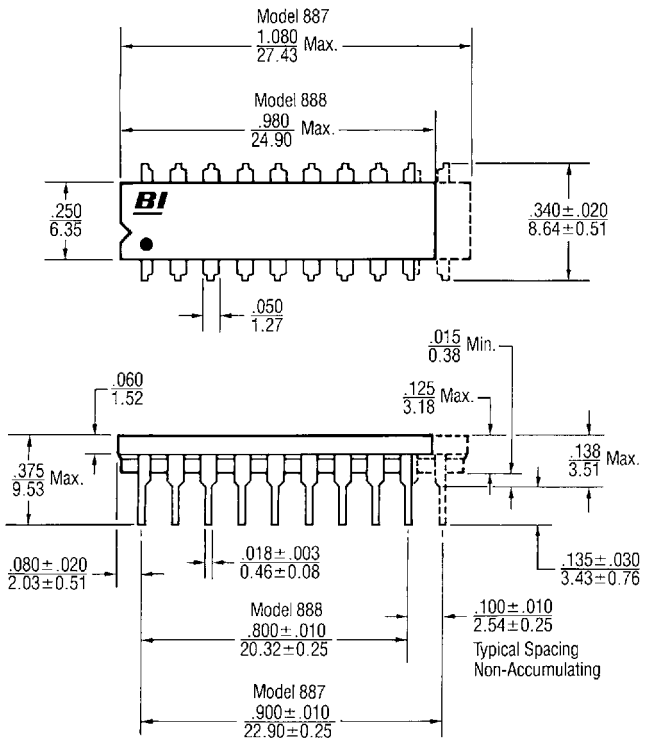
Approved to British Standard Specification BS9450 F0001.

**Beckman Industrial™**

*Affiliate of Emerson Electric Co.*

**Networks**

## Outline Dimensions *inches / mm*

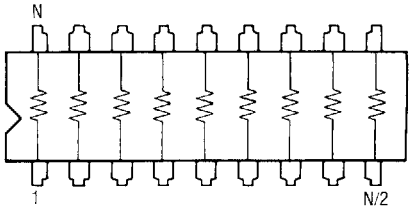



Note: Unless otherwise specified, tolerances are $\pm \frac{.005}{0.13}$

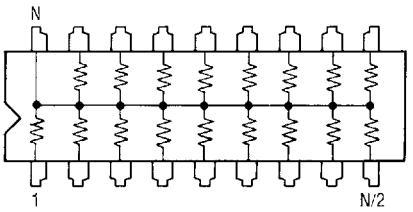
## Schematics: Standard

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

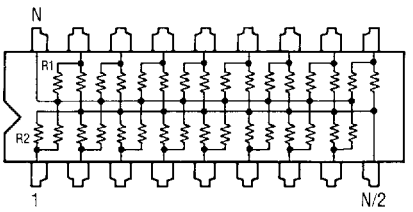
**—3 Circuit Isolated Resistors**



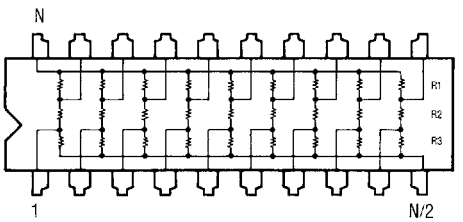

**—1 Circuit Bussed Resistors**



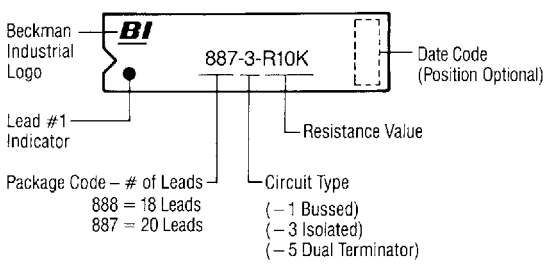

**—5 Circuit Dual Terminator**




**—6 Circuit SCSI Terminator**




## Typical Part Marking

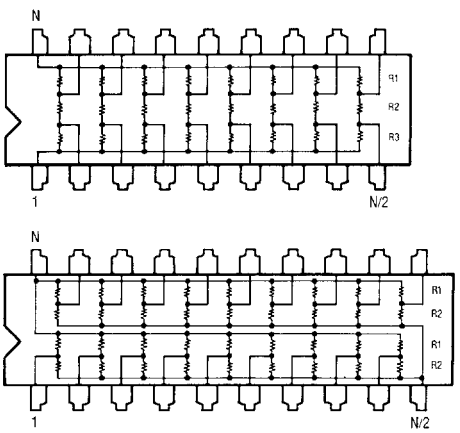



## Packaging

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

## Custom Capabilities

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




**WORLDWIDE HEADQUARTERS**
Beckman Industrial Corp.
Affiliate of Emerson Electric Co.
4141 Palm Street
Fullerton, CA 92635-1025
Telephone: (714) 447-2345
Fax: (714) 447-2500

**EUROPEAN HEADQUARTERS**
Beckman Industrial Ltd.
Queensway, Glenrothes, Fife
Scotland KY7 5PU
Telephone: (44) 592 753811
Fax: (44) 592 756443

**FAR EASTERN HEADQUARTERS**
Beckman Industrial Japan, Ltd.
Kakumaru Bldg.
1-10, Toyo 7-Chome
Koto-Ku, Tokyo, Japan
Telephone: Tokyo (03) 3615-1811
Fax: (03) 3647-2443