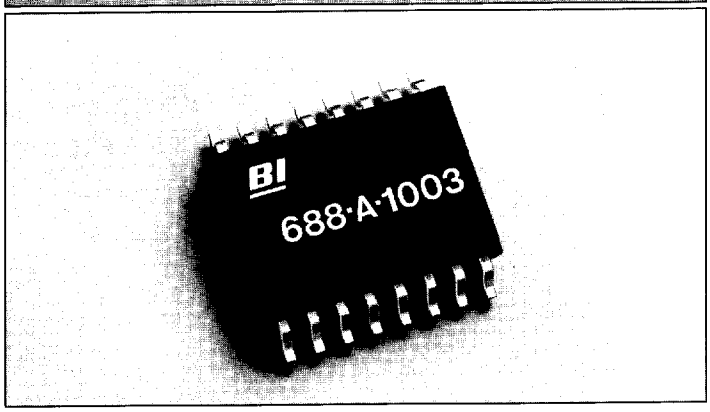
Model 688 Surface Mount Precision Thin Film

Dual In-Line .300" Resistor Network

T-62-05



Electrical

Operating Temperature Range	-55°C to +125°C
Resistance Voltco	≈0
Interlead Capacitance	<2pF
Operating Voltage, Maximum	100V dc or √PR
Insulation Resistance, Minimum	10,000 Megohms
Noise, Maximum (Mil-Std-202, Method 308)	-40dB

Mechanical

Lead Plating	85/15 Tin Lead
Lead Material	Copper Alloy
Lead Configuration	Gull Wing
Lead Coplanarity	0.004" (0.102mm)
Substrate Material	Alumina
Resistor Material	Nichrome
Body Material	Molded Epoxy

Environmental

Thermal Shock plus Power Conditioning	ΔR 0.25%
Short Time Overload	ΔR 0.1%
Terminal Strength	ΔR 0.1%
Moisture Resistance	ΔR 0.2%
Mechanical Shock	ΔR 0.25%
Vibration	ΔR 0.25%
Low Temperature Storage	ΔR 0.1%
High Temperature Exposure	ΔR 0.1%
Load Life, 1,000 Hours	ΔR 0.1%
Resistance to Solder Heat	ΔR 0.1%
Dielectric Withstanding Voltage	100V for 1 minute
Temperature Exposure, Maximum	215°C for 3 minutes
Marking Permanency	per Paragraph 4.6.7
Lead Solderability	per Paragraph 4.6.6
Flammability	UL-94V-0 Rated
Storage	-65°C to +125°C

Specifications subject to change without notice.

Tolerances

Accuracy Code	B	D	F
Absolute Resistance Tolerances, At 25°C	0.1%	0.5%	1.0%
Ratio	0.1%	0.1%	0.5%
Temperature Coefficient of Resistance			±25ppm/°C
Temperature Coefficient of Resistance, Tracking			±5ppm/°C

Standard Resistance Values, Ohms*

Model	Ohms	Code
688A	50K	5002
	100K	1003
688B	100K	1003

Applicable Documents

MIL-R-83401 — Resistor Networks, Fixed, Film, General Specifications

MIL-STD-202 — Test Methods for Electronics and Electrical Component Parts

* Consult Factory for non-standard values

Beckman Industrial™

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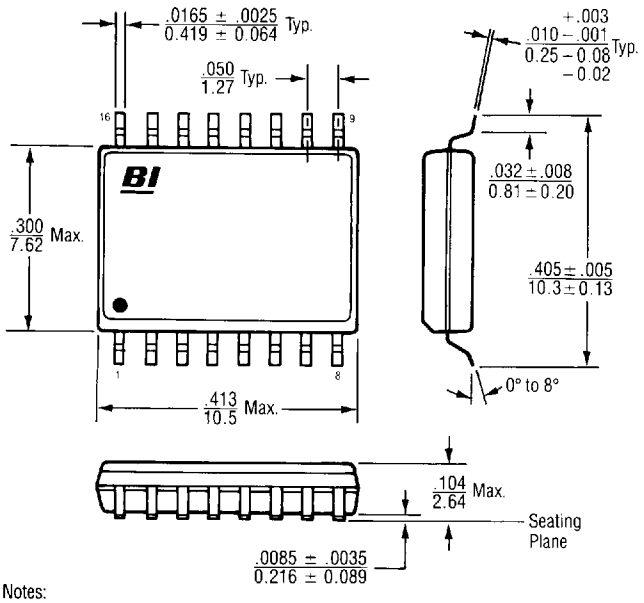
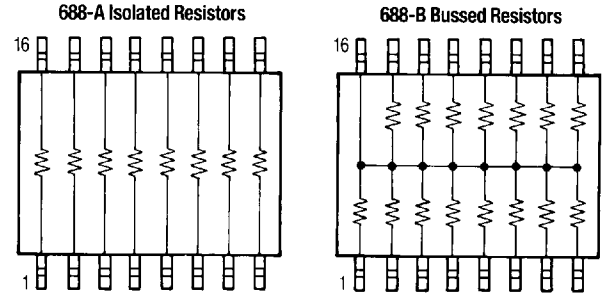
Networks

Outline Dimensions

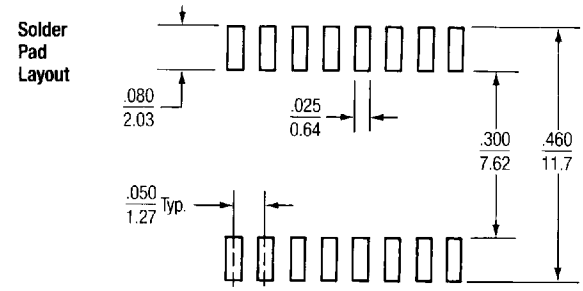


Notes:
1. Leads are within .005/0.13 of true position
2. Maximum allowable mold excursion = 0.006"

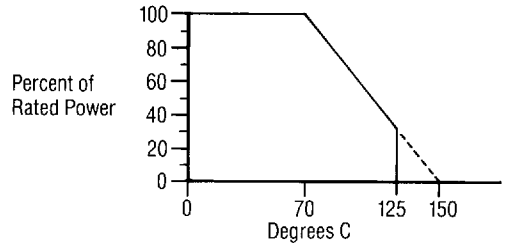
Schematics/Solder Pad Layout



Consult factory for custom circuit configurations.



Power Derating Curve



Power (Watts) Dissipation at 70°C

Model	Package	Resistor
688	.7	.1

Packaging

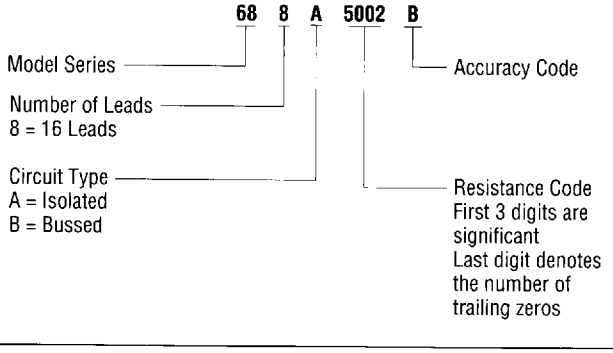
Standard: Magazine

All units oriented with lead #1 to the same side

Magazine: Capacity = 50 units

Option: Embossed Tape & Reel

Ordering Information



Typical Part Marking