

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

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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	∆R 0.1%
Load Life, 1,000 Hours	∆R 0.1%
Resistance to Solder Heat	∆R 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

 $\label{eq:Specifications} \textbf{Specifications subject to change without notice}.$

Tolerances			
Accuracy Code	В	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		±5	opm/°C

Standard Resistance Values, Ohms*

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

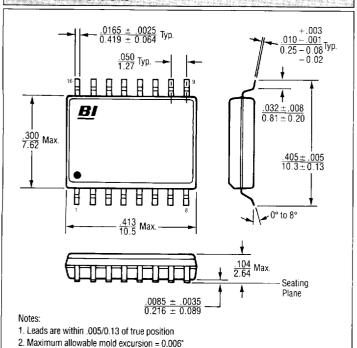
Applicable Documents

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

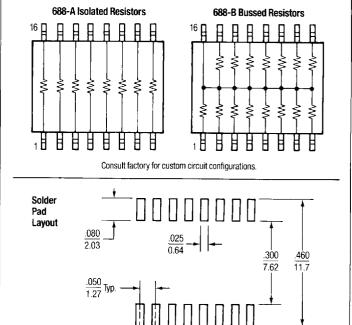


^{*} Consult Factory for non-standard values

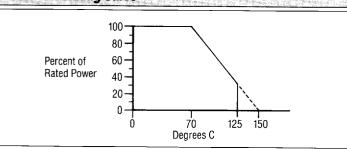
Outline Dimensions



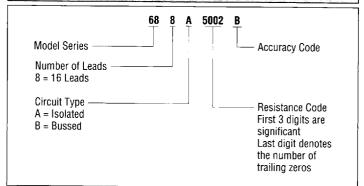
Schematics/Solder Pad Layout 688-A Isolated Resistors



Power Derating Curve



Ordering Information



Power (Watts) Dissination at 70°C

			614 FA
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

Typical Part Marking

