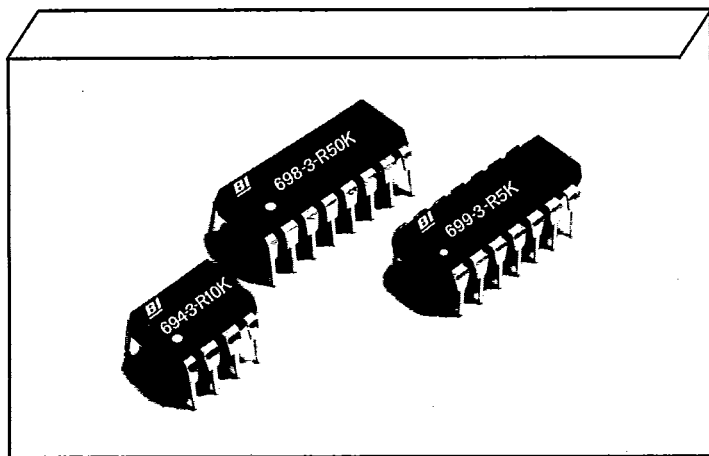




Model 694, 698, 699

Thin Film Precision

Dual In-Line Resistor Network

Electrical

Operating Temperature Range	-65°C to 125°C
Resistance Voltco	≈0
Interlead Capacitance	<2pF
Maximum Operating Voltage, Vdc	100V or $\sqrt{PR}$
Minimum Insulation Resistance, Ohms	10,000 Meg
Noise, Maximum (MIL-STD-202, Method 308)	-40dB

Mechanical

Lead Plating	60/40 Tin-Lead (Dipped)
Lead Material	Alloy 42 or KOVAR®
Substrate Material	Alumina
Resistor Material	Nichrome
Body Material	Molded Epoxy

Environmental (Per MIL-R-83401)

Thermal Shock	(ΔR) $\pm 0.25\%$
Power Conditioning	(ΔR) $\pm 0.25\%$
Short Time Overload	(ΔR) $\pm 0.10\%$
Terminal Strength	(ΔR) $\pm 0.10\%$
Moisture Resistance	(ΔR) $\pm 0.20\%$
Mechanical Shock	(ΔR) $\pm 0.25\%$
Vibration	(ΔR) $\pm 0.25\%$
Low Temperature Storage	(ΔR) $\pm 0.10\%$
High Temperature Exposure	(ΔR) $\pm 0.10\%$
Load Life, 1000 Hours	(ΔR) $\pm 0.10\%$
Resistance to Soldering Heat	(ΔR) $\pm 0.10\%$
Dielectric Withstanding Voltage	200V RMS for 1 Minute
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

KOVAR® is a registered trademark of Westinghouse Electric Corp.
Specifications subject to change without notice.

Accuracy Codes

Code	A	B	D	F
Absolute Resistance Tolerance, at 25°C	0.1%	0.1%	0.5%	1.0%
Ratio	0.05%	0.1%	0.1%	0.5%
Temperature Coefficient of Resistance, ppm/°C				± 50
Temperature Coefficient of Resistance Tracking, ppm/°C				± 5

Standard Resistance Values, Ohms

Models	100*	500*	1K*	2K*	5K*	10K*	20K*	50K*	100K*
694-3	100*	500*	1K*	2K*	5K*	10K*	20K*	50K*	100K*
694-6	1K	10K							
697-7	1K								
698-1	470	1K	2K	4.7K	10K	20K	22K	47K	100K
698-3	100	330	470	1K*	1.5K	2K	2.2K	3.3K	4.7K
	5K	10K*	15K	20K*	22K	47K*	50K*	100K*	
699-1	1K	4.7K	5K	10K	20K	50K	100K		
699-3	1K	2K	3.3K	4.7K	5K	10K	20K	22K	47K
	50K	100K							

All values available in Accuracy Codes, B, D, F.
Values with an * are also available in Accuracy Code A.
Consult Factory for Additional Values.

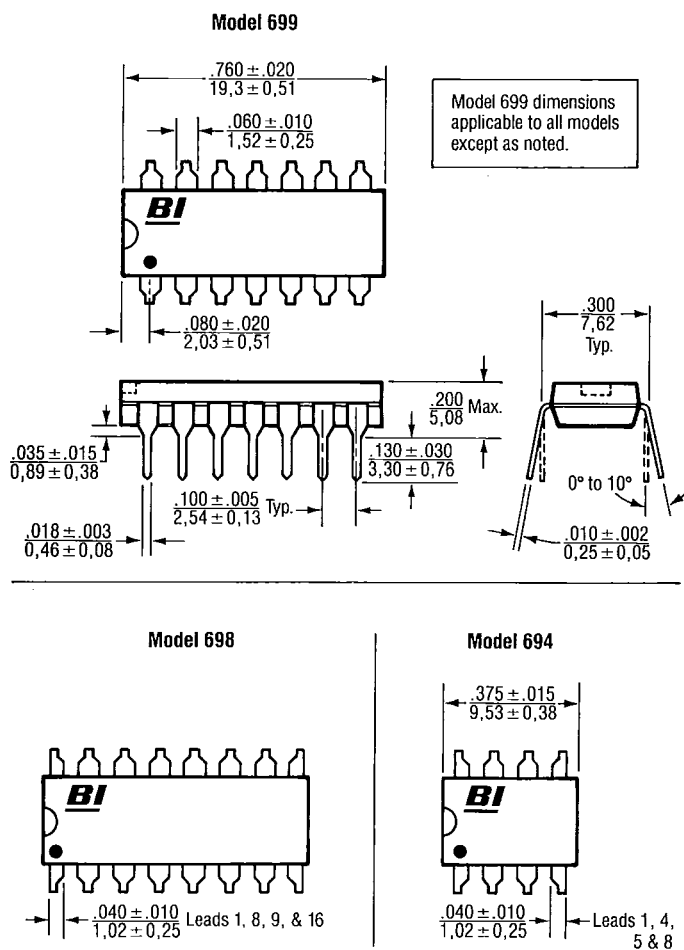
Applicable Documents

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

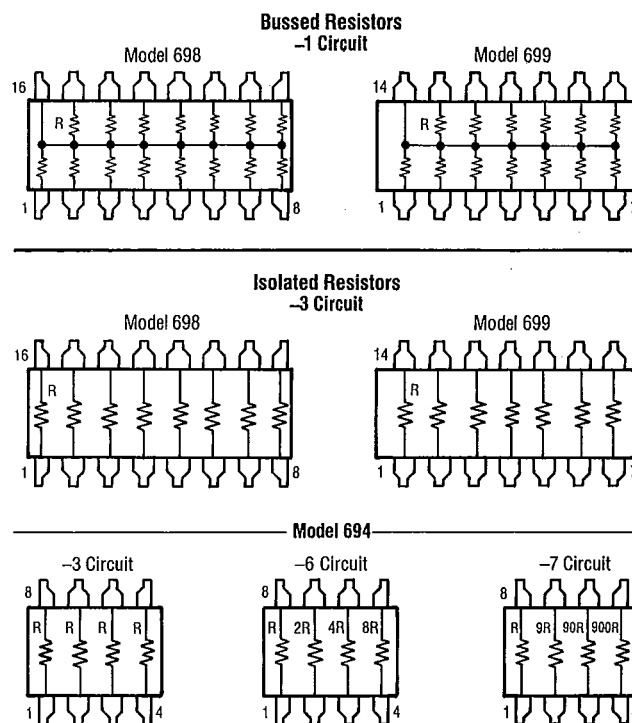
Beckman Industrial™

Affiliate of Emerson Electric Co.

Thin Film Networks

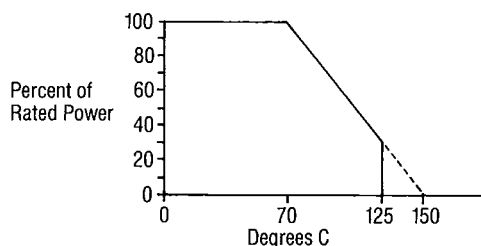
Outline Dimensions Inches
mm

Schematics

T-62-05


Packaging
Standard: Magazine

All units oriented with lead #1 to the same side

 Magazine Capacity, Units = 50 (8 leads)
 25 (16 leads)
 25 (14 leads)

Power Derating Curve

Power (Watts) Dissipation @ 70°C

Model	Package	Resistor
694	.4	.15
698-1	.6	.05
698-3	.6	.10
699-1	.6	.05
699-3	.6	.10

Ordering Information

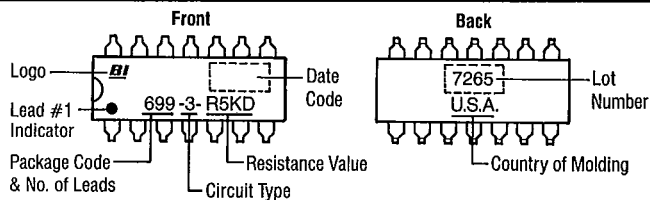
Model Series: 69 4 -3- R10K B

Number of Leads: 4 = 8 Leads, 8 = 16 Leads, 9 = 14 Leads

Accuracy Code: B

Resistance Value: R10K

Circuit Type: -1 = Bussed, -3 = Isolated

Typical Part Marking


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