

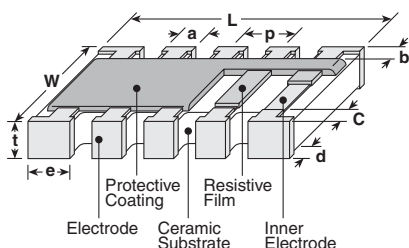
convex termination with square corners resistor array



features

- Manufactured to type RK73 standards
- Less board space than individual chips
- Isolated resistor elements
- Convex terminations with square corners
- Marking: Body color black
1F8N, 1H, 1E no marking
1J white three-digit marking
- Products with lead-free terminations meet RoHS requirements. Pb located in glass material, electrode and resistor element is exempt per Annex 1, exemption 5 of EU directive 2005/95/EC

dimensions and construction



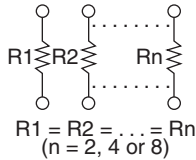
NEW	Size Code	Dimensions inches (mm)								
		L	W	C	d	t	a (ref.)	b (ref.)	p (ref.)	e
	1H2N	.031±.004 (0.8±0.1)	.024±.004 (0.6±0.1)	.006±.004 (0.15±0.1)	.006±.004 (0.15±0.1)	.014±.004 (0.35±0.1)	.014±.004 (0.35±0.1)	—	.020 (0.5)	.014±.004 (0.35±0.1)
	1E2K	.039±.004 (1.0±0.1)	.039±.004 (1.0±0.1)	.006±.004 (0.15±0.1)	.010±.004 (0.25±0.1)	.014 (0.35)	.013±.004 (0.33±0.1)	.007±.002 (0.17±0.05)	.026±.004 (0.65±0.1)	.013±.004 (0.33±0.1)
	1E4K	.079±.004 (2.0±0.1)	.039±.004 (1.0±0.1)	.006±.004 (0.15±0.1)	.010±.004 (0.25±0.1)	.014 (0.35)	.012±.006 (0.3±0.15)	.006±.004 (0.15±0.1)	.020 (0.5)	.013±.004 (0.33±0.1)
	1J2K	.063±.006 (1.6±0.15)	.063±.006 (1.6±0.15)	.012±.008 (0.3±0.2)	.010±.004 (0.25±0.1)	.020 (0.5)	.020 (0.5)	.012 (0.3)	0.31 (0.8)	.020 (0.5)
	1J4K	.126±.006 (3.2±0.15)	.063±.006 (1.6±0.15)	.012±.008 (0.3±0.2)	.010±.004 (0.25±0.1)	.020 (0.5)	.020 (0.5)	.012 (0.3)	0.31 (0.8)	0.024 (0.607)
	1F8K 1F8N	.149±.004 (3.8±0.1)	.063±.008 (1.6±0.2)	.012±.004 (0.3±0.1)	—	.017±.004 (0.44±0.1)	.012±.004 (0.296±0.1)	.012±.004 (0.3±0.1)	.020±.004 (0.5±0.1)	.012±.004 (0.296±0.1)

ordering information

New Part #	CN	1J	4		K	T	TD	101	J
Type		Size	Elements	1F8 Marking	Terminal Convex	Termination Material	Packaging	Nominal Resistance	Tolerance
		NEW 1H 1E 1J 1F	2 4 8	Blank: Marking N: No Marking	K: Convex type with square corners N: Flat type with square corners	T: Sn (Other termination styles may be available, please contact factory for options)	TD: 7" paper tape TDD: 10" paper tape	2 significant figures + 1 multiplier for ±5% 3 significant figures + 1 multiplier for ±1%	F: ±1% J: ±5%

For further information on packaging, please refer to Appendix A.

circuit schematic



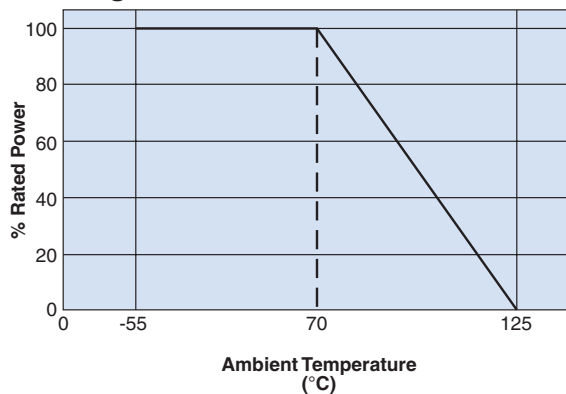
applications and ratings

Part Designation	Power Rating @ 70°C (Per Element)	T.C.R. (ppm/°C) Max.	Resistance Range E-96 (F±1%)	Resistance Range E-24 (J±5%)	Absolute Maximum Working Voltage	Maximum Overload Voltage (5 Secs. Max.)	Operating Temperature Range	
NEW CN1H2N	1/32W (.031W)	±200:>10Ω ±400:R<10Ω	10Ω - 100kΩ	10Ω - 1MΩ	12.5V	25V	-55°C to +125°C	
CN1E2K	1/16W (.063W)				1Ω - 1MΩ	25V		50V
CN1E4K						50V		100V
CN1J2K								
CN1J4K						10Ω - 1MΩ		25V
CN1F8K CN1F8NK	1/16W (.063W)* 0.25W per package				10Ω - 1MΩ	25V		50V

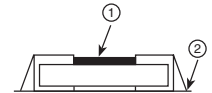
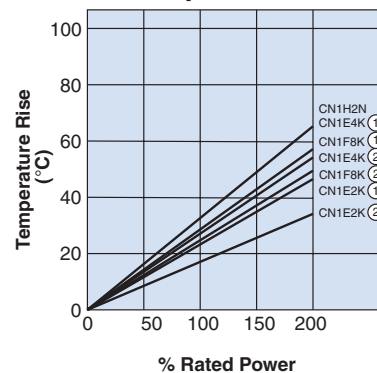
* Note that network resistors generate higher heat rather than single flat chip resistor under rated power output

environmental applications

Derating Curve



Surface Temperature Rise



Performance Characteristics

Parameter	Maximum Δ R	Test Method
Thermal Shock		MIL-STD-202, Method 107, -55°C to +125°C, 5 cycles
Low Temperature Operation	±(1.0% + 0.1Ω)	MIL-R-55342 π 4.7.4, 1 hour @ -55°C followed by 45 minutes of RCWV*
High Temperature Exposure		MIL-R-55342 π 4.7.6, 100 hours @ 125°C
Short Time Overload	±(2.0% + 0.05Ω)	MIL-R-55342 π 4.7.5, 2.5 x RCWV for 5 seconds
Resistance to Solder Heat		MIL-R-55342 π 4.7.7, 260°C for 10 seconds
Terminal Strength-Push	±(1.0% + 0.1Ω)	1.2 Kg for 1 minute
Terminal Strength-Bend	±(0.5% + 0.05Ω)	5mm deflection in either direction for 10 seconds
Moisture Resistance		MIL-STD-202, Method 103, 40°C, 90 - 95% RH, 1000 hours
Life	±5.0%	MIL-STD-202, Method 108, 70°C, 1000 hours @ RCWV, 1.5 hr ON, 0.5 hr OFF
Pulse		2.5 x RCWV, not exceeding max. overload voltage, 1 sec. ON, 25 sec. OFF, 10,000 cycles
Temperature Cycling	±1.0%	30 min. @ -55°C, 15 min. @ +25°C, 30 min. @ +125°C, 15 min. @ +25°C, 5 cycles
Terminal Adhesion	15 Grams Minimum	Axial pull, one terminal at a time
Dielectric Withstanding Voltage	100V	1 minute minimum, MIL-STD-202, Method 301
Insulation Resistance	1,000 MΩ Minimum	—

* RCWV = Rated Continuous Working Voltage.

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.

6/19/07