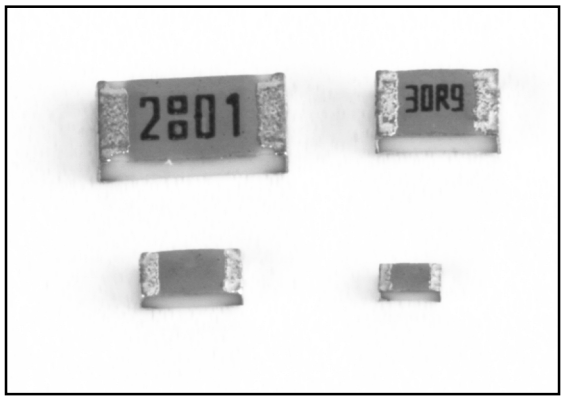
FLAT CHIP RESISTORS

FLAT CHIP RESISTOR - PRECISION



- RuO_2 Thick Film Resistor Element
- Anti-Leaching Nickel Barrier Terminations
- 90/10 Solder Plated Terminations, Standard
- Also Available with Epoxy Bondable,(Palladrum Silver) Terminations in 0805 and 1206 sizes.
- Meets or Exceeds EIA 575, EIAJ RC 2690A, EIA PDP - 100, MIL - R - 55342F
- 4 Digit, Black Marking on Blue Protective Coat. No Marking on 1E (0402) size.
- 3 Digit Marking on 1J (0603) size E-24 values only.

STANDARD APPLICATIONS

	PART DESIGNATION *	POWER RATING @70°C	TCR (ppm/°C) MAX	RESISTANCE RANGE (E-96)*** (D ±0.5%)	RESISTANCE RANGE (E-96)*** (F ± 1%)	ABSOLUTE MAXIMUM WORKING VOLTAGE	ABSOLUTE MAXIMUM OVERLOAD VOLTAGE	OPERATING TEMPERATURE RANGE**
NEW	RK73H1H (0201)	50 mW	±200		82Ω - 12KΩ1	25V	50V	- 55°C | +125°C
NEW	RK73H1E (0402)	63 mW	+200		10Ω - 1MΩ	50V	100V	
	RK73H1J (0603)	100 mW	±100	100Ω - 976KΩ	10Ω - 1MΩ	50V	100V	-55°C | +155°C
			±400		1.0Ω - 9.76Ω 1.02MΩ -4.7MΩ			
	RK73H2A (0805)	125 mW	±100	10Ω - 976KΩ	10Ω - 1MΩ	150V	300V	
			±400		1.0Ω - 9.76Ω 1.02MΩ - 10MΩ			
	RK73H2B (1206)	250 mW	±100	10Ω - 976KΩ	10Ω - 1MΩ	200V	400V	
			±200		1.02MΩ - 5.6MΩ			
			±400		1.0Ω - 9.76Ω 5.62MΩ - 10MΩ			
	RK73H2E (1210)	330 mW	±100	10Ω - 976KΩ	10Ω - 1MΩ			
			±200		1.02MΩ - 5.6MΩ			
			±400		1.0Ω - 9.76Ω 5.62MΩ - 10MΩ			
	RK73H2H (2010)	750 mW	±100	10Ω - 976KΩ	10Ω - 1MΩ			
			±200		1.02MΩ - 5.6MΩ			
			±400		1.0Ω - 9.76Ω 5.62MΩ - 10MΩ			
	RK73H3A (2512)	1000mW	±100	10Ω - 976KΩ	10Ω - 1MΩ			
			±200		1.02MΩ - 5.6MΩ			
			±400		1.0Ω - 9.76Ω 5.62 MΩ- 10MΩ			

* Parenthesis indicates EIA Package Size Codes.

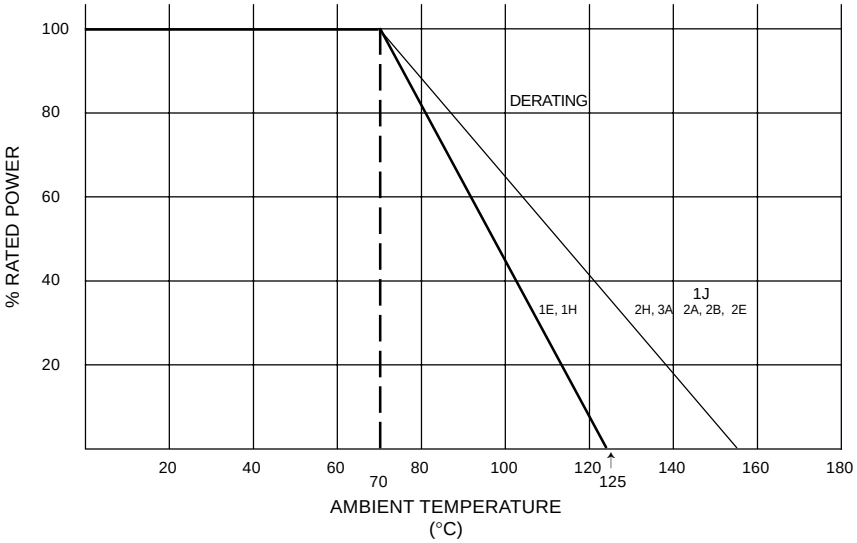
** 1J, 2A, 2B sizes available -55°C to +175°C by special order.
*** See Appendix A for available decade values.
1= E-24 values only

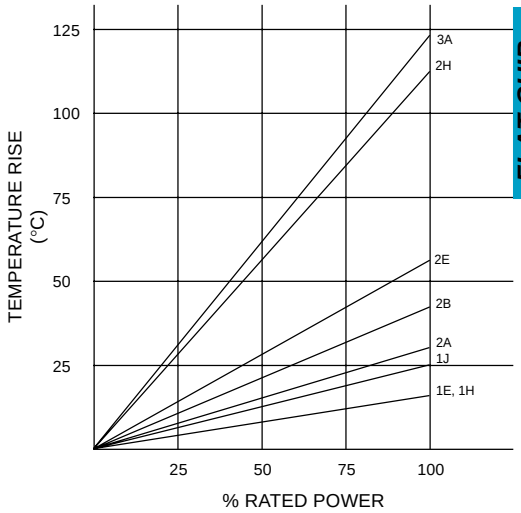
ORDERING & SPECIFYING INFORMATION*

RK73	H	2B	T	1003	F
TYPE	TERMINATION	SIZE CODE	PACKAGING	NOMINAL RESISTANCE	TOLERANCE
	H: Solderable X: Epoxy Bondable Available in 0603, 0805 and 1206 sizes. Not available in values less than 10 ohms.	(See Page 4) 1H: 0201 1E: 0402 1J: 0603 2A: 0805 2B: 1206 2E: 1210 2H: 2010 3A: 2512	(See Appendix A) T: 7" Punched Paper TE: 7" Embossed Plastic TP: Punched Paper 2mm 0402 (1E) only. TDD: 10" Punched Paper TED: 10" Embossed Plastic	3 Significant Figures & 1 Multiplier. R Indicates Decimal on Value < 100Ω	F: ± 1.0% D: ± 0.5%

*Please Note: KSE's Part Numbers Do Not Contain any Spaces or Hyphens.

ENVIRONMENTAL APPLICATIONS





PARAMETER	MAXIMUM Δ R	TEST METHOD
Thermal Shock	±0.5%	MIL-STD-202, Method 107 -55°C ~ +125°C, 5 cycles
Low Temperature Operation	±0.5%	MIL - R - 55342 π 4.7.4 1 Hour @ -55°C followed by 45 minutes of RCWV**
High Temperature Exposure	±0.5%	MIL - R - 55342 π 4.7.6 100 Hours @ 125°C
Short Time Overload	±2.0%	MIL - R - 55342 π 4.7.5 2.5 X RCWV for 5 seconds
Resistance to Solder Heat	±0.5%	MIL - R - 55342 π 4.7.7 260°C for 10 seconds
Terminal Strength-Bend	±0.5%	2mm Deflection in Either Direction for 10 Seconds
Moisture Resistance	±0.5%	MIL - STD - 202, Method 103 40ºC, 90 - 95%RH, 1000 Hours
Life	±0.75%	MIL - STD - 202, Method 108 70°C, 1000 Hours @ RCWV, 1 1/2 Hr ON, 1/2 Hr OFF
Pulse Limitation Curves Are Available at www.koaspeer.com		
Pulse	±5.0%	2.5 X RCWV**, Not Exceeding Maximum Overload Voltage 1 Second ON, 25 Seconds OFF 10,000 Cycles
Temperature Cycling	±0.75%	30 Minutes at -55°C; 15 Minutes at +25°C, 30 Minutes at + 125°C, 15 Minutes at +25°C, 5 Cycles
Dielectric Withstanding Voltage 1H 1E 1J 2A 2B 2E 2H 3A	 100V 100V 100V 400V 400V 400V 400V 400V	MIL - STD - 202, Method 301
Insulation Resistance	10,000 Meg Ohm Minimum	

**RCWV = Rated Continuous Working Voltage