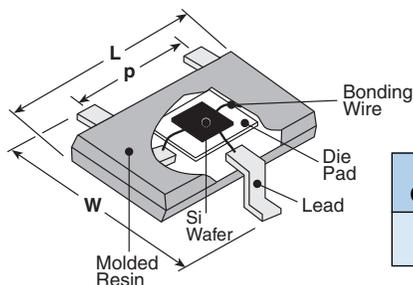




features

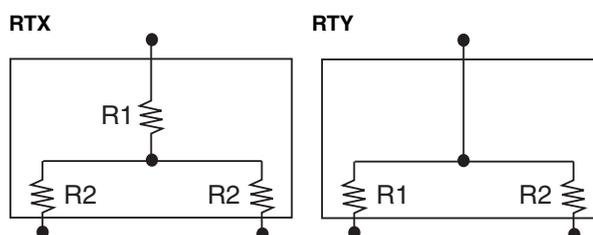
- Two circuit configurations
- Excellent parametric tracking
- Ultra precision ration matching
- Products with lead-free terminations meet EU RoHS and China RoHS requirements

dimensions and construction



Size Code	Dimensions inches (mm)		
	L	W	p
S03	.115 (2.92)	.091 (2.30)	.075 (1.91)

circuit schematic



ordering information

New Part #	RTX	S03	T	TE	5001
	Type	Package Symbol	Termination Material	Packaging	Custom Value Code
	RTX RTY	Package type symbol + number of pins S03 = SOT23-3	T: Sn (Other termination styles available, contact factory for options)	TE: 7" embossed plastic	Custom code assigned by KSE Engineering

applications and ratings

Part Designation	Power Rating @ 70°C (Per Element)	T.C.R. (ppm/°C)	Tracking T.C.R. (ppm/°C)	Resistance Tolerance	Relative Resistance Tolerance	Value Range	Maximum Working Voltage	Operating Temperature Range*
RTX	51Ω~1KΩ: 200mW/element	±25,±50,±100	±10	±1%, ±2%, ±5%	A:±0.05%, B:±0.1%,C:±0.25%, D:±0.5%, F:±1%,G:±2%	51Ω to 40KΩ	100V	-55°C to +125°C
RTY	1.1KΩ: 50mW/element	±10,±25,±50, ±100	±5,±10, ±25,±50	±5%, ±2%, ±1%, 0.1%		30Ω to 200KΩ	100V	-55°C to +125°C

* For custom Operating Temperature Range -55°C to +155°C, please contact factory.

resistance ranges

Product Code	Number of Pins	T.C.R.	Resistance Range (Ω) (E24) and Resistance Tolerance					
			B: ±0.1%	C: ±0.25%	D: ±0.05%	F: ±1%	G: ±2%, J: ±5%	
RTX	3	E: ±25	—	—	—	100 ~ 40k	R1: R2 = 1: 1 ~ 1: 2 Max. total resist.50kΩ	
		C: ±50						
		H: ±100						
RTY	3	T: ±10	1k ~ 150k	51 ~ 200k	1k ~ 40k	100 ~ 150k	R1: R2 = 1: 1 ~ 1: 10 Max. total resist. 200kΩ	
		E: ±25						
		C: ±50						
		H: ±100						

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

custom codes

Part Designation	Resistance Value		Tolerance		TCR (ppm/°C)	
	R1	R2	Absolute	Ratio	Absolute	Tracking
RTYS03TTE7507	10K	2.5K	±0.1%	±0.1%	25	—
RTYS03TTE7514	49.9K	10K	±0.1%	±0.1%	25	5
RTYS03TTE7515	100K	5.9K	±0.1%	±0.1%	25	5
RTYS03TTE7517	10K	10K	±0.1%	±0.05%	25	5
RTYS03TTE7520	3.9K	3.9K	±0.5%	±0.05%	25	5
RTYS03TTE7524	1K	10K	±0.5%	±0.5%	25	25
RTYS03TTE7549	10K	90K	±0.1%	±0.1%	25	10
RTYS03TTE7569	5K	5K	±1%	±0.1%	25	5
RTYS03TTE7570	20K	20K	±1%	±0.05%	25	—
RTYS03TTE7579	100K	100K	±0.1%	±0.1%	25	5
RTYS03TTE7581	100K	2K	±0.1%	—	25	5
RTYS03TTE7582	10K	4.99K	±0.1%	—	25	5
RTYS03TTE7583	3K	150K	±0.1%	±0.1%	25	5
RTYS03TTE7585	10K	20K	±1%	±0.05%	25	5
RTYS03TTE7589	5K	10K	±0.1%	±0.05%	25	5
RTYS03TTE7599	1.5K	10K	±1%	±0.5%	25	5
RTYS03TTE7613	1K	1K	±0.1%	±0.1%	25	5
RTYS03TTE7632	2.5K	2.5K	±0.1%	±0.1%	25	5
RTYS03TTE7633	500	500	±0.5%	±0.1%	25	5
RTYS03TTE7636	15K	75K	±0.1%	±0.5%	10	5
RTYS03TTE7643	23K	67K	±0.1%	±0.5%	10	5
RTYS03TTE7650	4K	4K	±0.1%	±0.1%	25	5
RTYS03TTE7664	2.5K	500	±0.5%	±0.1%	25	5
RTYS03TTE7677	887	1K	±0.1%	±0.1%	25	5
RTYS03TTE7685	10K	100K	±0.1%	±0.1%	25	5
RTYS03TTE7687	20K	100K	±0.1%	±0.1%	25	5
RTYS03TTE7698	25K	25K	±0.1%	±0.1%	25	25