



thin film network resistors for high voltage divider

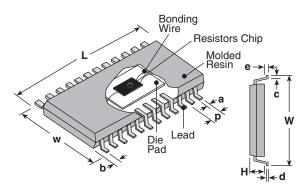


features



- High precision high voltage divider
- Maximum resistance value 11.5M Ω , maximum working voltage 1000V, maximum resistance ratio 1000:1
- Relative precision of pair resistors are guaranteed
- Higher integration saves board space and overall assembly costs
- Excellent reliability with standard molded IC package
- Suitable for reflow soldering
- Products meet EU RoHS requirements
- AEC-Q200 tested

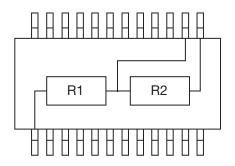
dimensions and construction



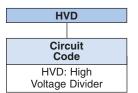
	Туре	Dimensions inches (mm)						
		L ±0.2	W ±0.2	w ±0.2	H ±0.2	p ±0.1		
	HVD	.341 (8.66)	.236 (5.99)	.150 (3.81)	.063 (1.60)	.025 (0.635)		

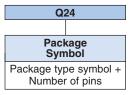
_	Dimensions inches (mm)						
Туре	a ±0.1	b ±0.1	c ±0.2	d ±0.1	e ±0.1		
HVD	.010 (0.25)	.033 (0.84)	.026 (0.66)	.008 (0.20)	.007 (0.18)		

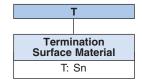
circuit schematic

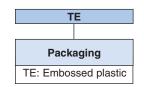


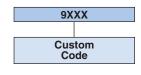
ordering information











Contact KOA when you have a control request for environmental hazardous material other than the substance specified by EU RoHS.

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

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





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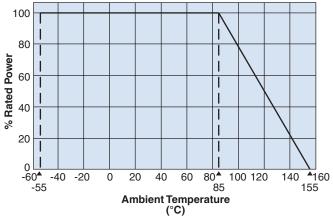
applications and ratings

Part Designation	Power Rating	Power Rating /Resistor Element	Resistance Range Max. Resistance Ratio (1:1000) (R1+R2)/R2	Absolute Resistance Tolerance	Relative Resistance Tolerance	T.C.R. (X10 ⁻⁶ /K)	Relative T.C.R. Tracking	Rated Ambient Temperature	Operating Temperature Range
R1	1000V	250mW	0.5ΜΩ ~ 11.5ΜΩ	±0.1%, ±0.25%, ±0.5%, ±1%	0.1% 0.25%	±25 ±50	10 25	+85°C	-55°C to +155°C
R2	15V	50mW	1.5kΩ ~ 1MΩ	_	0.5%				

Rated voltage = $\sqrt{\text{Power rating x resistance value}}$ or max. working voltage, whichever is lower Guaranteed value differs depending on resistance value

environmental applications





For resistors operated at an ambient temperature of 85°C or above, a power rating shall be derated in accordance with the derating curve.

Performance Characteristics

Requirement Δ R ±(%+0.05Ω)		R ±(%+0.05Ω)		
Parameter	Limit	Typical	Test Method	
Resistance	Within specified tolerance	_	25°C	
T.C.R.	Within specified T.C.R.	_	+25°C/-55°C, +25°C/+155°C	
Resistance to Soldering Heat	±0.1%	±0.02%	260°C ± 5°C, 10 seconds ± 1 second	
Rapid Change of Temperature	±0.1%	±0.01%	-55°C (30 minutes), +155°C (30 minutes), 1000 cycles	
Moisture Resistance	±0.1%	±0.02%	85°C ± 2°C, 85% ± 5% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle	
Endurance at 85°C	±0.1%	±0.01%	85°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle	
High Temperature Exposure	±0.1%	±0.03%	+155°C, 1000 hours	