

End of Life- Last time to buy: 3/31/2025 XR73B,XR73H,XR73Z

flat thick film resistors (for embedded substrates)



features

- Interlayer embedding in the multilayer substrate is applicable from the height of 0.13 to 0.14mm
- Cu via hole connection is applicable by the Cu electrode



Туре				Dimensions inches (mm)				
(Inch Size Code)	L			W	С	d	t	
1H	.024±	.001	.01	2±.001	.009±.001	.009±.001	.005±.001	
(0201)	(0.6±0).03)	(0.3	8±0.03)	(0.23±0.03)	(0.23 ± 0.03)	(0.13±0.02)	
1E	.039±	.002	.02	0±.002	.011±.002	.011±.002	.006±.001	
(0402)	(1.0 ± 0)).05)	(0.5	5±0.05)	(0.28 ± 0.05)	(0.28 ± 0.05)	(0.14 ± 0.03)	

ordering information

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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

XR73B, XR73H

Part Designation	Power Rating*	Rated Ambient Temp.	T.C.R. (x10 ^{-∉} /K) Max.	Resistan XR73H F: ±1% E24, E96	ce Range XR73B J: ±5% E24	Absolute Maximum Working Voltage	Absolute Maximum Overload Voltage	Operating Temp. Range
411	0.063W	70°C	±200	10Ω~1ΜΩ	10Ω~10MΩ	501/	100V	-55°C to +155°C
іп			±400	1.0Ω~9.1Ω**	1.0Ω~9.1Ω	507		
	E 0.063W	70°C	±100	10Ω~1ΜΩ			100V	
1E			±200	1.0Ω~9.76Ω 1.02ΜΩ~10ΜΩ	1.0Ω~10ΜΩ	50V		-55°C to +155°C

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

* The ratings will be for the surface mounted condition ** The nominal resistance value for XR73H1H (1 Ω IRI9.1 Ω) is E24 **XR73Z**

Rated Maximum Operating Part Current Resistance Ambient **Overload** Temp. Designation Rating* Current Range Temp. 50mΩ max. 1A 70°C 2A **1H** -55°C to +155°C 1E $50m\Omega$ max. 1A 70°C 2A -55°C to +155°C

* The ratings will be for the surface mounted condition

environmental applications



For resistors operated at an ambient temperature of 70°C or above, a power rating shall be derated in accordance with the derating curve.

One-Pulse Limiting Electric Power



The maximum applicable voltage is equal to the max. overload voltage.

Please ask us about the resistance characteristic of continuous applied pulse.

The pulse endurance values are not assured values, so be sure to check the products on actual equipment when you use them.

Performance Characteristics

	XR73H, XR73B Requirement Δ R ±(%+0.05Ω)		XR Requir	73Z rement	
Parameter	Limit	Typical	Limit	Typical	Test Method
Resistance	Within specified tolerance	_	$50m\Omega$ max. after the test	$15m\Omega$ max. after the test	25°C
T.C.R.	Within specified T.C.R.	—	_	_	+25°C/-55°C and +25°C/+125°C
Overload (Short time)	±2%	±0.5%	50m Ω max. after the test	1E: R□20mΩ 1H: R□40mΩ	Rated Voltage x 2.5 for 5 seconds 1H: Rated voltage (DC) x 2 for 5 seconds
Rapid Change of Temperature	±1%	±0.5%	100mΩ max. after the test	1E: R□20mΩ 1H: R□40mΩ	-55°C (30 minutes), +125°C (30 minutes), 100 cycles
Moisture Resistance	±3%	±1.5%	100mΩ max. after the test	1E: R□20mΩ 1H: R□40mΩ	40°C ± 2°C, 90%~95%RH, 1000 hours; 1.5 hr ON, 0.5 hr OFF cycle
Endurance at 70°C	±3%	±1%	100mΩ max. after the test	1E: R□20mΩ 1H: R□40mΩ	70°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
High Temperature Exposure	±1%	±0.5%	100mΩ max. after the test	1E: R□20mΩ 1H: R□40mΩ	+155°C, 1000 hours

The performance will be for the surface mounted condition.

Additional environmental applications can also be found at www.koaspeer.com

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