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RARA TP14, TP24, TP44, TP84

Precision Metal Film Radial Leaded Resistors

Radial leaded 1/8W, 1/4W, 1/2W, 1W rating and up to 25ppm/ $^{\circ}$ C, 0.1% absolute in series. Precision Ni-Cr thin film resistors, applicable in general use. Color coded, lead forming and taping to available in 1/4W and 1/2W. Featuring long-term stability, low noise, wide operating temperature range and low failure rate. Communications, power control, industrial measurements, automatic testing, medical and high-ended audio systems.



GENERAL SPECIFICATIONS

Model	Power Rating [W]	Resistance Range [Ω], (TCR-Tolerance)			Max. Working
		E - B C - F Lead Pith		Voltage [V]	
		25ppm/°C, \pm 0.1%	50ppm/℃, ±1%		
TP14	1/2W	47 - 750KΩ	-	10	√(PR)
	1W	-	10 - 1MΩ	10mm	
TP24	1/4W	47 - 750KΩ	-	7 5	
	1/2W	-	10 - 1MΩ	7.5mm	
TP44	1/4W	47 - 180KΩ	10 - 250KΩ	5mm	
TP84	1/8W	47 - 33KΩ	10 - 47KΩ	2 . 5mm	

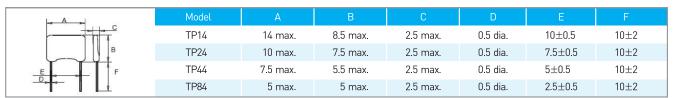
^{*} Power rating notations had been changed from previous specifications by results of long term test.

CHARACTERISTICS

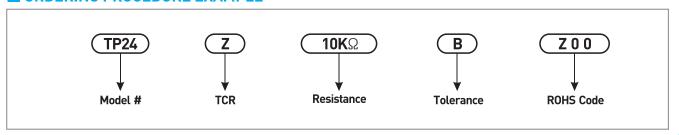
Test	E - B (25ppm/℃, ±0.1%)	C - F (50 ppm/℃, ±1.0%)	Conditions			
Rated Ambient Temperature	-55°C~+70°C	-55℃~+70℃				
Operating Temperature Range	-55℃~+155℃	-55℃~+155℃				
Storage Temperature Range	-55℃~+155℃	-55℃~+155℃				
Short Time Overload	$\pm [0.10\% + 0.01\Omega]$	$\pm [0.25\% + 0.01\Omega]$	2.5 x Power rating, 5 seconds			
Load Life	$\pm [0.10\% + 0.01\Omega]$	$\pm [0.50\% + 0.01\Omega]$	$70^{\circ}\mathrm{C}$, 90minutes on, 30minutes off, 1000hours			
Humidity	$\pm [0.25\% + 0.01\Omega]$	$\pm [0.50\% + 0.01\Omega]$	40°C, 90-95%RH, 90minutes on, 30minutes off, 1000hours			
Temperature Cycle	$\pm [0.10\% + 0.01\Omega]$	$\pm [0.25\% + 0.01\Omega]$	-55 $^{\circ}\!$			
Soldering Heat	$\pm [0.10\% + 0.01\Omega]$	$\pm[0.10\%+0.01\Omega]$	4mm portion, $350^\circ\mathrm{C}$, 3seconds, dipping			
Withstanding Voltage	$\pm [0.10\% + 0.01\Omega]$	$\pm [0.25\% + 0.01\Omega]$				
Terminal Strength	$\pm [0.10\% + 0.01\Omega]$	$\pm [0.25\% + 0.01\Omega]$				
Insulation Resistance	>10,000MΩ	>10,000MΩ				

^{***} Up to TCR±1ppm/°C, tolerance±0.01% are available. Please call factory.

DIMENSIONS [mm]



ORDERING PROCEDURE EXAMPLE



Website: www.raraohm.com E-mail: sg@raraohm.com

^{**} Any combination of TCR and tolerance are available, as such as A-F(100ppm/ $^{\circ}$ C- \pm 1%), Z-D(5ppm/ $^{\circ}$ C- \pm 0.5%) or C-B