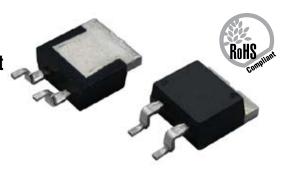
TDH50 Series

50 watt D2-PAK T0-263 Thick Film Surface Mount

FEATURES

- 50W high power resistors in TO263 (D2-PAK) style package with matte Tin plated flange.
- Non-inductive design suits high frequency applications and high-speed pulse circuits.
- Low, 2.3 deg C/W heat resistance from resistor hot spot to flange and long life performance are presented with thick film metallization technology.
- Wide, 20 m Ω to 51K Ω resistance range.



APPLICATIONS

- UPS
- Power unit of machines
- Motor control
- Drive circuits
- Automotive
- Measurements
- Industrial computers
- High frequency electronics

	CHARACTE	RIST	ICS			
Test	Condition			Value		
Rating Power	• •			50 Watt		
-	(when used with proper heatsink cool	ing systen	1)			
	Attached on simple footprint			2 Watt		
Heat Resistance	Resistor hot spot to flange		2.3°C/W			
Resistance Range	Resistance at terminal foot portion			0.02- 0.091Ω	0.1- 9.1Ω	10- 51ΚΩ
Nominal Res.	Include 2.5, 4.0, 5.0, 8.0 and 16			E6	E24	E24
TCR	TCR (ppm/°C) of low resistance will typically be increased as indicated. Testing point is at 5.27mm from bottom of molding of terminals	300ppm 200ppm 140ppm 80ppm	0.05Ω 0.1Ω	250	100	50
Tolerance	1% tolerance at 0.01-0.091Ω are avai	lable		5%(J)	1% (F) 5% (J)	±1% (F)
Capacitance	Equivalent parallel capacitance			1.44pF		
Inductance	Equivalent series inductance			8.38nH		
Operation Temp.			-55°C to +155°C			
Operating Volt.	P is rating power and R resistance		Either 500V or √P·R			
Withstand. Volt.	Terminal and flange, 60 seconds. 1mA		2000 VAC			
Load Life	25°C, 90 min.ON, 30 min. OFF, 1000h.		±1.0%			
Humidity	40°C, 90-95%RH, DC 0.1W, 1000 hours.		±1.0%			
Temp. Cycle	-55°C,30 min., +155°C,30 min., 5cyc		±0.25%			
Soldering Heat	350±5°C, 3 sec.,		±0.1%			
Lead Solderability	245±5°C, 3seconds.		Over 95% of surface			
Insulation Resistance	Between terminals and tab.		Over 1,000MΩ			
Vibration IEC60068-2-6. Test method is IEC60068-2-6, and ±0.25% specification is sine sweep wave form, 100Hz-2000Hz, 10 cycles, amplitude 0.75mm or 100m/s2, 90minutes. direction x-y z, Amplitude 0.75mm will be applied under break point Frequency (about 60Hz) and 100m/ s2 over break point						
Flammability				UL94-V0		
Weight				1.5 grams	1	

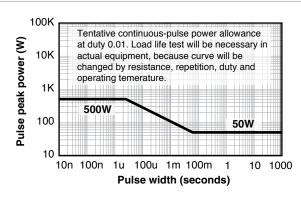
(continued)

TDH50 Series

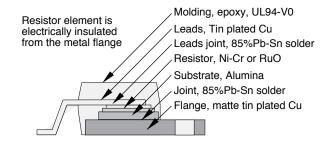
50 watt D2-PAK T0-263 Thick Film Surface Mount

CHARACTERISTICS

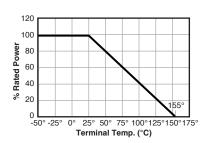
Pulse Energy Durability



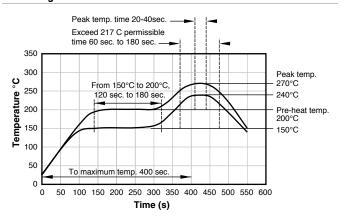
Construction



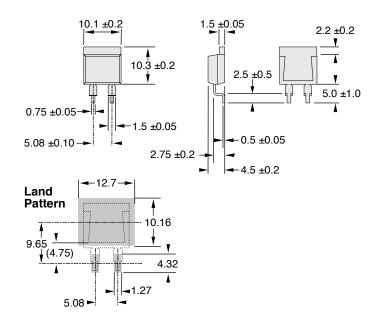
Derating



Soldering

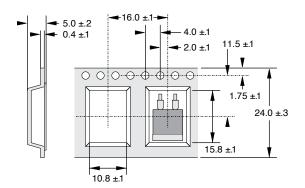


DIMENSIONS



Tape Dimensions

Tape and Reel packaging supplied in 500 pcs per reel.



Reel Dimensions

Outer diameter: 330mm Width: 23.9mm min. 27.4mm max Inner diameter: 100mm Package quantity: 500pcs/13" reel

(continued)



TDH50 Series

50 watt D2-PAK T0-263 Thick Film Surface Mount

ORDERING INFORMATION

Tape and reel

Standard Ohm Values						
Ohms	Part Number	Tolerance				
0.05	TDH50HR050JE	5%				
0.1 0.2 1 2 5	TDH50HR100FE TDH50HR200FE TDH50H1R00FE TDH50H2R00FE TDH50H5R00FE	1% 1% 1% 1% 1%				
10 20 25 50 75	TDH50H10R0FE TDH50H20R0FE TDH50H25R0FE TDH50H50R0FE TDH50H75R0FE	1% 1% 1% 1% 1%				
100 200 500 1,000	TDH50H100RFE TDH50H200RFE TDH50H500RFE TDH50H1K00FE TDH50H10K0FE	1% 1% 1% 1% 1%				

THIS PRODUCT IS DESIGNED FOR USE WITH PROPER HEATSINKING.

Maximum base plate temperature of the resistor must be monitored and kept within specified limits to establish the power rating. Best technique is to attach a thermocouple to the side of the base plate of the resistor. Temperature of plastic housing or heat sink cannot be used to establish rating of the resistor.

X-ON Electronics

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CR-05FL7--19K6 CR-05FL7--243R CR-05FL7--40K2 CR-12JP4--680R CRCW04021K20FKEE CRCW06036K80FKEE

M55342K06B2E94RS2 M55342K06B309DRS3 M55342K06B6E81RS3 M55342K08B100DRWB M55342M05B200DRWB

M55342M06B26E7RS3 MC0603-511-JTW 742C083750JTR MCR01MZPF1202 MCR01MZPF1601 MCR01MZPF1800 MCR01MZPF6201

MCR01MZPF9102 MCR01MZPJ113 MCR01MZPJ121 MCR01MZPJ125 MCR01MZPJ203 MCR01MZPJ751 MCR01MZPJ822

MCR03EZHJ103 MCR03EZPFX1272 MCR03EZPJ123 MCR03EZPJ270 MCR03EZPJ821 MCR10EZPF1102 MCR10EZPF2003

MCR10EZPF2700 MCR18EZPJ330 RC0603F1473CS RC0603F150CS RC1005F1152CS RC1005F1182CS RC1005F1372CS

RC1005F183CS RC1005F1911CS RC1005F1912CS RC1005F203CS RC1005F2052CS RC1005F241CS RC1005F2431CS

RC1005F3011CS RC1005F303CS RC1005F4321CS RC1005F4642CS