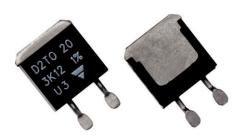
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Surface Mounted Power Resistor Thick Film Technology

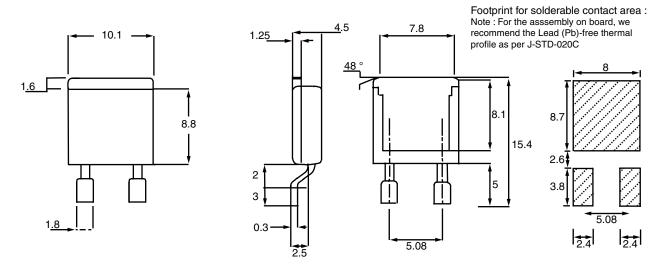


FEATURES

- 20 Watt at 25 °C on the board
- Surface mounted resistor TO 263 (D2 PAK) style package
- Wide resistance range from 0.01 Ω to 550 $k\Omega$
- Non Inductive
- RoHS compliant
- Resistor isolated from Metal Tab
- Support soldering temperature of 260 °C



DIMENSIONS in millimeters



ELECTRICAL SPECIFICATIONS			
Resistance Range	0.01 Ω to 550 KΩ		
Tolerances (standard)	± 1 % to 10 %		
Dissipation and Associated:	On board		
Power Rating and Thermal Resistance	20 W at 25 °C R _{TH} (j-c) : 6.5 °C/W		
Temperature Coefficient	See Special Features table		
Standard	± 150 ppm/°C		
Limiting Element Voltage	250 V		
Dielectric Strength Mil STD 202	2000 Vrms - 1 minute - 10 mA max (Between Terminals and Heatsink)		
Insulation Resistance	≥ 10 ⁶ MΩ		
Inductance	≤ 0.1 μH		
Critical Resistance	3.12 ΚΩ		

SPECIAL FEATURES						
Resistance Values	≥ 0.010	≥ 0.015	≥ 0.1	≥ 0.5		
Tolerances	± 1 % at ± 10 %					
Typical temperature Coefficient (- 55 °C + 150 °C)	± 900 ppm/ °C	± 700 ppm/ °C	± 250 ppm/ °C	± 150 ppm/ °C		



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MECHANICAL SPECIFICATIONS				
Mechanical Protection Molded				
Resistive Element	Thick Film			
Substrate	Alumina			
Connections	Tinned Copper			
Weight	2 g max.			

ENVIRONMENTAL SPECIFICATIONS		
Temperature Range	- 55 °C to 155 °C	
Climatic Category	55/155/56	

DIMENSIONS	
Standard package	TO 263 Style (D2 PAK)

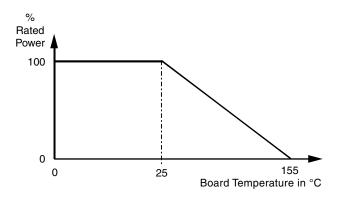
PACKAGING

Reel

Tube on request

POWER RATING

The temperature of the case should be maintained within the limits specified.



MARKING

Model, Style, Resistance Value (in Ohm), Tolerance (in %), Manufacturing Date, Vishay Trademark.

PERFORMANCE				
TESTS	CONDITIONS	TYPICAL DRIFTS		
Momentary Overload	NF EN 140 000 CEI 115-1 2Pr/5s Us < 1.5UI	± (0.25 % + 0.005 Ω)		
Rapid Temperature Change	NF EN 140 000 CEI 68214 Test Na 5 cycles - 55 °C to + 155 °C	± (0.5 % + 0.005 Ω)		
Load Life	NF EN 140 000 1000h Pr at + 25 °C	± (1 % + 0.005 Ω)		
Humidity (Steady State)	NF EN 140 000 56 days R.H > 95 %	± (0.5 % + 0.005 Ω)		
Vibration	MIL STD 202 Method 204 C - Test. D	± (0.2 % + 0.005 Ω)		
Termination Strength	MIL STD 202 Method 211 Cond. A1	± (0.2 % + 0.005 Ω)		
Shock	100 G, MIL STD 202 Method 213 Cond.I	± (0.5 % + 0.005 Ω)		

ORDERING INFORMATION						
D2TO	20	С	100 k $Ω$	± 1 %	XXX	e3
MODEL	STYLE	CONNECTIONS	RESISTANCE VALUE	TOLERANCE	CUSTOM DESIGN	LEAD (Pb)-FREE
				± 1 % ± 2 % ± 5 % ± 10 %	Optional on request: shape, etc	

SAP PART NUMBERING GUIDELINES							
D 2 T 0	2 0	c -	1 0 0 0 2	F	R	E 3	
MODEL	STYLE	CONNECTIONS	RESISTANCE VALUE	TOL	PACK LE	AD (Pb)-FREE	
SAP Part Number D2TO20C10002FRE3							

Legal Disclaimer Notice



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