PTCSS12



Vishay BCcomponents

SMD 0805, PTC Thermistors for Over-Temperature Protection



QUICK REFERENCE DATA				
VALUE	UNIT			
235 to 705	Ω			
70 to 140	°C			
25 V				
~ 3.5 mW/K				
-40 to 155 °C				
~ 0.015	g			
	235 to 705 70 to 140 25 ~ 3.5 -40 to 155			

Note

⁽¹⁾ Max operating temperature range is $T_n + 15$ °C, indicated value is for $T_n = 140$ °C.

NOMINAL WORKING TEMPERATURE AND ORDERING INFORMATION			
SAP ORDERING NUMBER	NOMINAL WORKING TEMPERATURE		
TAPE AND REEL	T _n (°C)		
PTCSS12T071DTE	70		
PTCSS12T081DTE	80		
PTCSS12T091DTE	90		
PTCSS12T101DTE	100		
PTCSS12T111DTE	110		
PTCSS12T121DTE	120		
PTCSS12T131DTE	130		
PTCSS12T141DTE	140		

FEATURES

- Well-defined protection temperature levels
- · Very fast reaction time
- · Accurate resistance for ease of circuit design
- · Excellent long term behavior
- Small size and rugged
- UL approved according standard UL1434 (file: E148885)
- PTC thermistor with lead (Pb)-free terminations
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

APPLICATIONS

Over-temperature protection and control in:

- Industrial electronics
- SMPS
- Electronic data processing
- Motor protection
- LED-drivers and control
- Power inverters

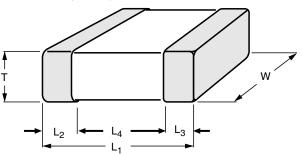
DESCRIPTION

These PTC sensing thermistors consist of a medium resistivity doped barium titanate ceramic beam, glass coated and have tin plated nickel barrier over silver electrodes compatible with wave or reflow soldering technology.

PACKAGING

PTC thermistors are available in paper tape on reel with an SPQ of 4000 pieces.

COMPONENT OUTLINE DIMENSIONS (in mm)



Lı	W	т	L_2 and L_3 MIN.
2.00 ± 0.2	1.25 ± 0.2	0.90 ± 0.15	0.4 ± 0.25

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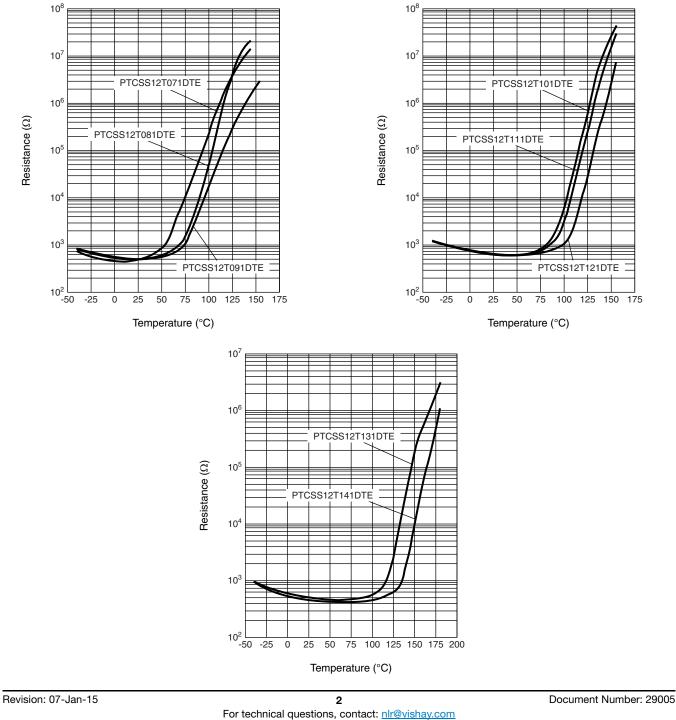




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ELECTRICAL CHARACTERISTICS		
PARAMETER	VALUES	
Resistance at 25 °C	470 Ω ± 50 %	
Maximum resistance at -40 °C	2500 Ω	
Maximum resistance at (T _n - 5) °C	4700 Ω	
Minimum resistance at (T _n + 5) °C	4700 Ω	
Minimum resistance at (T _n + 15) °C	15 000 Ω	
Maximum voltage	25 V (AC or DC)	

TYPICAL RESISTANCE/TEMPERATURE CHARACTERISTIC



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