

Vishay BCcomponents

NTC Thermistor, Epoxy Coated Mini Sensor



QUICK REFERENCE DATA					
PARAMETER	VALUE	UNIT			
Resistance value at 25 °C	2.1K to 100K	Ω			
Tolerance on R ₂₅ -value	± 1 to ± 5	%			
B _{25/85} -value	3511 to 4190	K			
Tolerance on B _{25/85} -value	± 0.5 to ± 1.5	%			
Operating temperature range	-55 to +150	°C			
Response time (63.2 %) 25 °C to 85 °C still air (for info)	5	s			
Dissipation factor δ in still air (for info)	1.8	mW			
Maximum power dissipation	100	mW			
Min. dielectric withstanding voltage between terminals and coated body	500	V _{AC}			
Insulation resistance at 100 V _{DC}	> 10M	Ω			
Weight	≈ 100	mg			

FEATURES





COMPLIANT

- Temperature range from -55 °C to +150 °C
- · Highly resistant to thermal shocks
- Small body diameter of max. 2.5 mm
- AEC-Q200 qualified
- · Fast response time
- High sensitivity
- Delivery in bulk or in tape with extra long leads (for automatic mounting)
- · Material categorization: for definitions of compliance please see www.vishav.com/doc?99912

APPLICATIONS

Temperature sensing, control and compensation.

E.g. inlet air temperature sensing thermistors or ECT in automotive applications, sensor elements in industrial and commercial applications, heating systems and industrial systems.

MOUNTING

The thermistors are suitable for all standard assembly processes like crimping, soldering, welding. The parameters of the assembly process should be chosen in accordance with the lead-wire material (tinned nickel) and validated in application.

The mounting process should be in compliance with the following guidelines and recommendations:

- · Peeling forces on the leads should be reduced to a minimum and should never exceed 3 N
- Avoid large temperature gradients between the welding region and the sensor

PACKAGING

- Bulk components are delivered in boxes of 500 components
- Taped components are delivered on a reel of 1500 components (according to IEC 60286-2 but with extra long leads: H0 = 32 mm)

DESIGN IN SUPPORT

complete curve visit: computation, please www.vishay.com/thermistors/ntc-curve-list/.

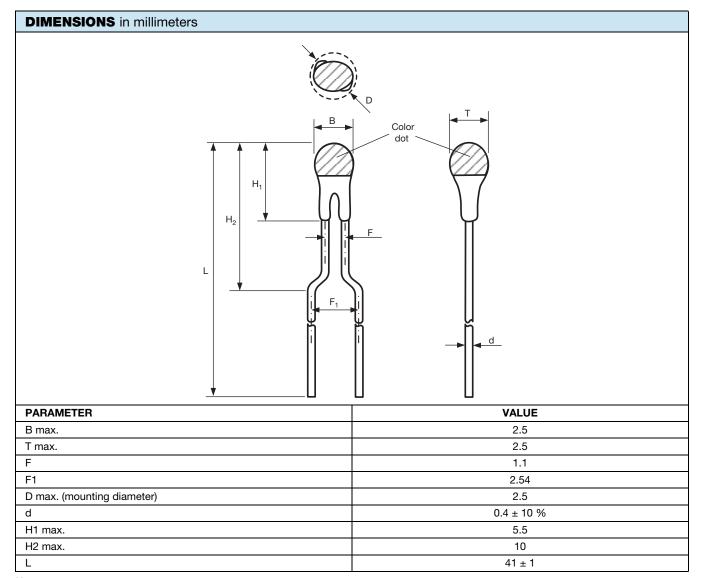
ELECTRICAL DATA AND ORDERING INFORMATION						
R ₂₅ (Ω)	R ₂₅ -TOL. (± %)	B _{25/85} (K)	B _{25/85} -TOL. (± %)	SAP MATERIAL AND ORDERING NUMBER (1)	COLOR DOT (see next page)	
2100	1, 2, 3, 5	3511	1	NTCLE213E3212xMyy	Orange	
10 000	1, 2, 3, 5	3435	1	NTCLE213E3103xLyy	Red	
10 000	1, 2, 3, 5	3984	0.5	NTCLE213E3103xHyy	Blue	
12 000	1, 2, 3, 5	3740	1	NTCLE213E3123xMyy	Black	
30 000	1, 2, 3, 5	3935	0.75	NTCLE213E3303xHyy	Green	
100 000	1, 2, 3, 5	4190	1.5	NTCLE213E3104xXyy	Brown	

Note

Replace the x-digit by J for R_{25} -tolerance of 5 %, H for 3 %, G for 2 %, and F for 1 %. Replace the y-digits by B0 for bulk delivery and by T1 for tape and reel delivery



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Note

· Non-dimensioned details do not affect the performance of the thermistors



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