Vishay Dale



Linear PTC Thermistors, Surface Mount Chip



FEATURES

- Solderable wraparound terminations
- · Alumina substrate base with PTC thick film element
- 0603, 0805, and 1206 sizes available
- Available in tape and reel packaging
- Standard tolerances: ± 5 %, ± 10 %
- Contact factory for non-standard tolerance
- Linear from 55 °C to + 125 °C
- Maximum linear deviation: ± 0.01 %/°C

STANDARD ELECTRICAL SPECIFICATIONS										
TCR LOT	TCR1)		R	₂₅ Ω VALUI	E RANGE (5 % aı	nd 10 % TC	LERANCE) ²⁾	
ppm	TOLERANCE		0603			0805			1206	
- 55 °C to + 125 °C	ppm	MIN.		MAX.	MIN.		MAX.	MIN.		MAX.
3500	± 300	10	-	22	10	-	39	10	-	47
3300	± 300	27	-	120	47	-	180	56	-	220
3100	± 300	150	-	270	220	-	330	270	-	470
2900	± 300	330	-	560	390	-	680	560	-	1K
2700	± 300	680	-	1.2K	820	-	1.5K	1.2K	-	3.9K
2500	± 300	1.5K	-	5.6K	1.8K	-	6.8K	4.7K	-	8.2K
2300	± 300	6.8K	-	10K	8.2K	-	10K	10K	-	15K

Notes 1. Contact Vishay Dale if closer TCR lot tolerance is desired. 2. Other R25 values and tolerances are available upon request.

STANDARD RESISTANCE VALU	ES	
10	120	1.5K
12	150	1.8K
15	180	2.2K
18	220	2.7K
22	270	3.3K
27	330	3.9K
33	390	4.7K
39	470	5.6K
47	560	6.8K
56	680	8.2K
68	820	10K
82	1K	12K
100	1.2K	15K

STANDARD TECHNICAL SPECIFICATIONS				
PART NUMBER	POWER RATING	MAXIMUM WORKING VOLTAGE RCWV ¹⁾		
PTFT 0603	75 mW	30 VDC		
PTFT 0805	100 mW	40 VDC		
PTFT 1206	125 mW	50 VDC		

Note 1. Rated Continuous Working Voltage is maximum working voltage or square root of the power rating times resistance value, whichever is less.

GLOBAL PART N	UMBER INFORMATION	ON		
New Global Part Number	ring: PTFT1206L1002KZ (pre	eferred part numbering forn	nat)	
PT	F T 1 2 0	6 L 1 0	0 2 K Z	
GLOBAL MODEL	CHARACTERISTIC	RESISTANCE VALUE	TOLERANCE CODE	PACKAGING
PTFT0603 PTFT0805	L = Linear	1002 = 10K	J = ± 5 % K = ± 10 %	F = Lead (Pb)-free, Bulk W = Lead (Pb)-free, T/R (Full)
PTFT1206	PTFT1206L1002KZ (will con	tinue to be accepted)		P = Tin/Lead, Bulk Z = Tin/Lead, T/R (Full)
	FIT TIZOUZIOZKZ (WIII COIII		1/	
HISTORICAL MODEL	CHARACTERISTIC	RESISTANCE VALUE	TOLERANCE CODE	PACKAGING

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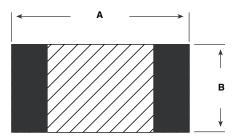
For technical questions, contact: thermistors1@vishay.com

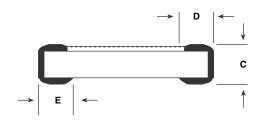
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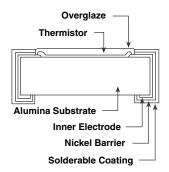
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DIMENSIONS in inches [millimeters]





PART NUMBER	Α	В	С	D	E
PTFT0603	0.063 ±0.006	0.031 + 0.006 - 0.002	0.020 ±0.004	0.012 ±0.008	0.012 ±0.008
	[1.60 ±0.15]	[0.80 + 0.15 - 0.05]	[0.50 ±0.10]	[0.30 ±0.20]	[0.30 ±0.20]
PTFT0805	0.079 ±0.006	0.049 ±0.006	0.020 ±0.006	0.016 ±0.010	0.016 ±0.010
	[2.00 ±0.15]	[1.25 ±0.15]	[0.50 ±0.15]	[0.40 ±0.25]	[0.40 ±0.25]
PTFT1206	0.124 ±0.006	0.063 ±0.006	0.022 ±0.006	0.020 ±0.010	0.020 ±0.010
	[3.15 ±0.15]	[1.60 ±0.15]	[0.56 ±0.15]	[0.50 ±0.25]	[0.50 ±0.25]



CONSTRUCTION

PERFORMANCE ¹⁾				
TEST ³⁾	MAXIMUM % △R ²⁾			
1E21-9	1K and Below	Above 1K		
High Temperature Exposure (100 hours at 125 °C)	1 %	1 %		
Effects of Bonding (10 sec. Solder dip at 260 °C)	1 %	1 %		
Thermal Shock (30 min. at - 65 °C, 30 min. at 125 °C, 5 cycles)	1 %	5 %		
Low Temperature Operation (Maximum Rated Power for 2 hours at - 65 °C)	1 %	10 %		
Short Time Overload (2.5 x RCWV for 5 seconds)	1 %	20 %		
Moisture Resistance (240 hours, 10 cycles)	4 %	5 %		
Load Life (1000 hours 70 °C, Maximum Rated Power 1.5 hours "ON", 5 hours "OFF")	2 %	10 %		
Load Humidity (1000 hours at 85 °C, 85 % RH, and 10 % RCWV)	5 %	15 %		
Solderability (95 % coverage P/F)	Р	Р		
Leaching (Physical Damage P/F)	Р	Р		

Notes

- 1. Environmental performance specifications use test procedures as outlined in MIL-R-23648D and MIL-STD-202.
- 2. PTFT's are ESD Sensitive.
- 3. Test reading accuracy of \pm 0.3 %.

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