

Commercial Styles Semi-Precision Power Wirewound Resistors

T / NT Wirewound Series

- 0.1Ω to 175kΩ
- 0.75 to 14 watts
- ±0.1% to ±10% tolerance
- Non-inductive windings available
- Meets or exceeds all applicable MIL-R-26 ratings



All Pb-free parts comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

Electrical Data

Type	Similar to MIL-R-26 Style	Similar to MIL-PRF-39007 Style ¹	Power Rating 25°C (W)	T Standard Range (Ω)		NT Non-inductive Range (Ω)		Maximum Working Voltage (V)
			U	Min Ω	Max KΩ	Min Ω	Max KΩ	
(N)T-1/2	-	-	0.75	0R24	6K0	1R0	3K0	55
(N)T-1/2-A81	RW81	RWR81 ¹	1	0R2	4K0	1R0	500R	67
(N)T-1A-70	RW70	-	1	0R1	7K5	0R1	3K8	110
(N)T-1C	-	-	1	0R1	4K2	0R1	2K1	110
(N)T-1-80	RW80	RWR80 ¹	2	0R1	12K	1R7	6K0	155
(N)T-2A	-	-	3	0R1	20K	0R1	10K	306
(N)T-2A-69	RW69	-	3	0R1	25K	0R1	12K5	245
(N)T-2B-79	RW79	RWR89 ¹	3	0R1	33K	0R5	12K	346
(N)T-3	-	-	4	0R1	38K	0R3	15K	457
(N)T-5	-	-	5	0R1	60K	0R8	30K	541
(N)T-5-74	RW74	RWR74 / 84 ¹	5	0R1	60K	0R8	30K	686
(N)T-6	-	-	6	0R1	92K	1R1	46K	698
(N)T-6-67	RW67	-	6.5	0R1	92K	1R1	46K	773
(N)T-7	-	-	7	0R1	115K	0R1	57K5	1017
(N)T-7A-55	RW55	-	7	0R1	175K	0R1	87K5	1183
(N)T-10A-56	RW56	-	14	0R1	150K	0R17	75K	2049
(N)T-10	-	-	10	0R1	150K	3R0	51K	1975
(N)T-10-78	RW78	RWR78 ¹	10	0R1	150K	3R0	51K	1732
(N)T-10-68	RW68	-	11	0R1	150K	0R1	75K	1817

Designate non-inductive winding by adding the prefix "N" to style.

¹ The RWR is obsolete. The listed parts correspond to the commercial equivalent parts that are manufactured with the same procedures but lack the burn-in screening that is required by MIL-PRF-39007

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability.

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General Specifications

Temperature Range	Characteristic U = -55°C to +275°C
Standard Temperature Coefficient	±20 ppm/°C 10Ω up ±50 ppm/°C 1.0Ω to 9.9Ω ±400 ppm/°C 0.50Ω to 0.999Ω ±650 ppm/°C 0.1Ω to 0.499Ω
Special Temperature Coefficient	Available from -30 ppm/°C to +6000 ppm/°C Temperature range for special TC's -50°C to +150°C
Insulation Resistance	1000 megohms minimum dry at 100 volts DC
Derating	Wattage rating based on operation at 25°C Derate to zero at 275°C for "U" style rating

Lead Material:

Tinned copperweld is standard.

Also available: Weldable Grade A nickel (bare)

Special Features:

- Radial lead available
- Resistance network packages designed to individual customer requirements
- Temperature coefficient matching and tracking to ±5 ppm
- Ratio tolerance matched sets available

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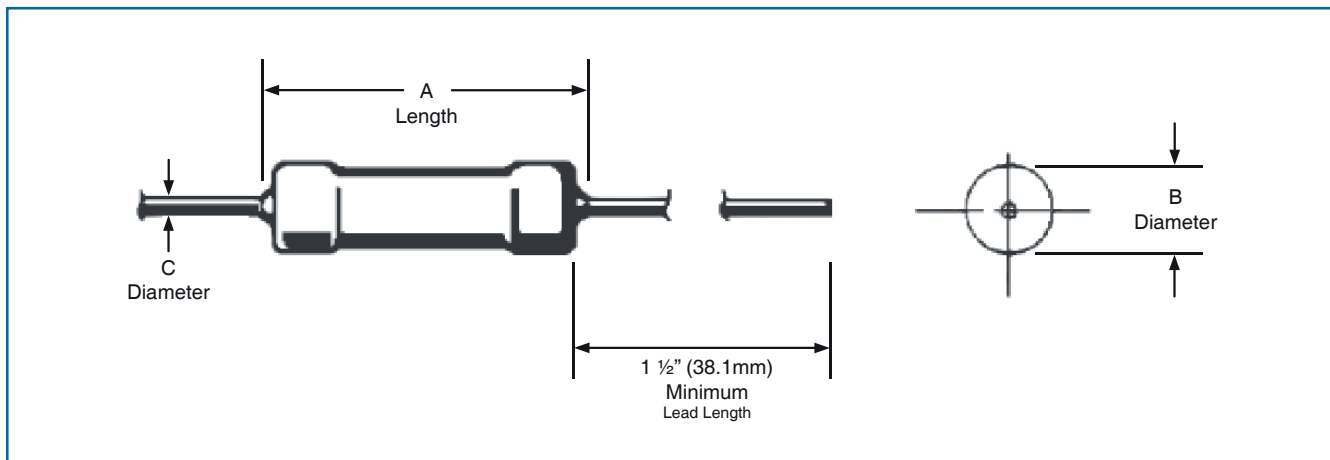
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Physical Data



Dimensions (Inches and (mm))						
Type	A		B		C	
	Inches	mm	Inches	mm	Inches (±0.002)	mm (±0.05)
(N)T-1/2	0.330 (±0.062)	8.4 (±1.6)	0.078 (±0.031)	2.0 (±0.8)	0.020	0.5
(N)T-1/2-A81	0.250 (±0.032)	6.4 (±0.8)	0.085 (±0.020)	2.2 (±0.5)	0.020	0.5
(N)T-1A-70	0.406 (±0.032)	10.3 (±0.8)	0.094 (±0.032)	2.4 (±0.8)	0.020	0.5
(N)T-1C	0.303 (±0.032)	7.7 (±0.8)	0.115 (±0.32)	2.9 (±0.8)	0.020	0.5
(N)T-1-80	0.406 (±0.032)	10.3 (±0.8)	0.094 (±0.032)	2.4 (±0.8)	0.020	0.5
(N)T-2A	0.500 (±0.062)	12.7 (±1.6)	0.187 (±0.031)	4.8 (±0.8)	0.032	0.8
(N)T-2A-69	0.500 (±0.063)	12.7 (±1.6)	0.188 (±0.063)	4.8 (±1.6)	0.032	0.8
(N)T-2B-79	0.560 (±0.062)	14.2 (±1.6)	0.187 (±0.031)	4.8 (±0.8)	0.032	0.8
(N)T-3	0.625 (±0.062)	15.8 (±1.6)	0.250 (±0.062)	6.3 (±1.6)	0.040	1.0
(N)T-5	0.875 (±0.062)	22.2 (±1.6)	0.312 (±0.062)	7.9 (±1.6)	0.040	1.0
(N)T-5-74	0.875 (±0.062)	22.2 (±1.6)	0.312 (±0.062)	7.9 (±1.6)	0.040	1.0
(N)T-6	1.000 (±0.062)	25.4 (±1.6)	0.312 (±0.062)	8.0 (±1.6)	0.040	1.0
(N)T-6-67	1.000 (±0.094)	25.4 (±2.4)	0.313 (±0.063)	8.0 (±1.6)	0.032	0.8
(N)T-7	1.185 (±0.062)	30.0 (±1.6)	0.312 (±0.062)	8.0 (±1.6)	0.040	1.0
(N)T-7A-55	1.375 (±0.094)	35.0 (±2.4)	0.469 (±0.094)	12 (±2.4)	0.032	0.8
(N)T-10A-56	2.000 (±0.094)	50.8 (±2.4)	0.469 (±0.094)	12 (±2.4)	0.032	0.8
(N)T-10	1.812 (±0.062)	46.0 (±1.6)	0.375 (±0.062)	9.5 (±1.6)	0.040	1.0
(N)T-10-78	1.780 (±0.062)	45.2 (±1.6)	0.375 (±0.062)	9.5 (±1.6)	0.040	1.0
(N)T-10-68	1.875 (±0.063)	47.6 (±1.6)	0.344 (±0.094)	8.7 (±2.4)	0.032	0.8

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Ordering Procedure

Example: T1801000FLF (T-1-80, 100 ohms $\pm 1\%$, Pb-free)

	T	1	8	0				1	0	0	0	F	L	F			
1	2						3			4	5		6				

1	2		3	4	5	6		
Winding	Type ¹		Value	Tolerance	Termination	Packing ²		
Omit for standard	T1/2	T574	3 digits + multiplier	B = ±0.1%	Omit for SnPb	Omit for standard (73mm) tape & reel		
	T1/2A81	T6	R = ohms for values <100ohms	C = ±0.25%	LF = Pb-free	BLK	All sizes	Bulk
N = non-inductive	T1A70	T667		D = ±0.5%		TBD	T-2A, T2-A-69, T-2B-79, T-3	Non-standard (63.5mm) tape & reel
	T1C	T7		F = ±1%				
	T180	T7A55		J = ±5%				
	T2A	T10A56						
	T2A69	T10	TBC	T-2A, T-2A-69, T-2B-79	Non-standard (52.4mm) tape & reel			
	T2B79	T1078						
	T3	T1068						
	T5							
						Tape & reel pack quantities		
						T-1/2 to T-5-74		1000/reel
						T-6 to T-10-68		500/reel

Note 1: Legacy part numbers which include a power characteristic code U after Type are permitted.

Note 2: For full details see PS002 - Packing Specification Axial Resistors (IRC Origin):

<https://www.ttelectronics.com/TTElectronics/media/ProductFiles/Resistors/ApplicationNotes/PS002-Packing-of-Axial-Resistors-IRC-Origin.pdf>

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