

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



Standard winding (T...) OBSOLETE

 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	OR24	6K0	1R0	3K0	55
(N)T-1/2-A81	RW81	RWR81 ¹	1	OR2	4K0	1R0	500R	67
(N)T-1A-70	RW70	-	1	OR1	7K5	OR1	3K8	110
(N)T-1C	-	-	1	OR1	4K2	OR1	2K1	110
(N)T-1-80	RW80	RWR80 ¹	2	OR1	12K	1R7	6K0	155
(N)T-2A	-	-	3	OR1	20K	OR1	10K	306
(N)T-2A-69	RW69	-	3	OR1	25K	OR1	12K5	245
(N)T-2B-79	RW79	RWR89 ¹	3	OR1	33K	OR5	12K	346
(N)T-3	-	-	4	OR1	38K	OR3	15K	457
(N)T-5	-	-	5	OR1	60K	OR8	30K	541
(N)T-5-74	RW74	RWR74 / 84 ¹	5	OR1	60K	OR8	30K	686
(N)T-6	-	-	6	OR1	92K	1R1	46K	698
(N)T-6-67	RW67	-	6.5	OR1	92K	1R1	46K	773
(N)T-7	-	-	7	OR1	115K	OR1	57K5	1017
(N)T-7A-55	RW55	-	7	OR1	175K	OR1	87K5	1183
(N)T-10A-56	RW56	-	14	OR1	150K	OR17	75K	2049
(N)T-10	-	-	10	OR1	150K	3R0	51K	1975
(N)T-10-78	RW78	RWR78 ¹	10	OR1	150K	3R0	51K	1732
(N)T-10-68	RW68	-	11	OR1	150K	OR1	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¹ The RWR is obsolete.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.
All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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T / NT Wirewound Series

Standard winding (T...) OBSOLETE

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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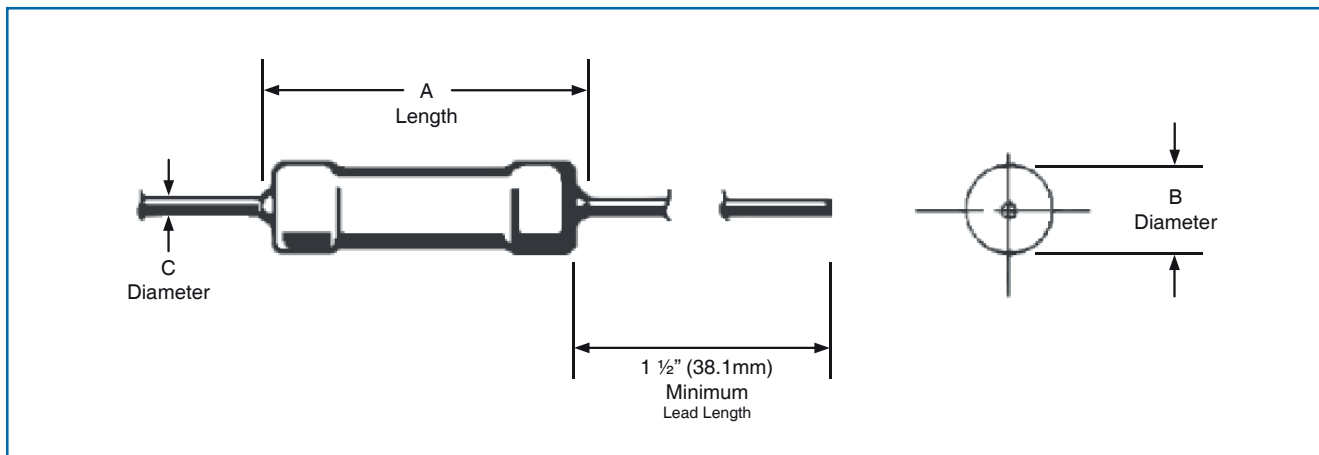
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Physical Data



Dimensions (Inches and (mm))

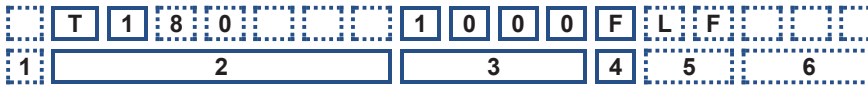
Type	A		B		C	
	Inches	mm	Inches	mm	Inches (±0.002)	mm (±0.05)
(N)T-1/2	0.330 (±0.062)	8.4 (±1.6)	0.078 (±0.031)	2.0 (±0.8)	0.020	0.5
(N)T-1/2-A81	0.250 (±0.032)	6.4 (±0.8)	0.085 (±0.020)	2.2 (±0.5)	0.020	0.5
(N)T-1A-70	0.406 (±0.032)	10.3 (±0.8)	0.094 (±0.032)	2.4 (±0.8)	0.020	0.5
(N)T-1C	0.303 (±0.032)	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 ±1%, Pb-free)



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		
N = non-inductive	T1/2A81	T6	R = ohms for values <100ohms	C = ±0.25%	LF = Pb-free	BLK	All sizes	Bulk
	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%		TBC	T-2A, T-2A-69, T-2B-79	Non-standard (52.4mm) tape & reel
	T2A	T10A56						
	T2A69	T10						
	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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