

FEATURES

- WHM, UltraHigh ohmic value precision series,
- WNM, Aryton Perry winding Non-Inductive available. Inductance <1nH at 1MHZ test,
- Designed to meet the most stringent MIL-R-26F, MIL-STD-202 standard requirements
- Miniaturized Better power to dimension ratios
- Use of the highest quality standard (96% Alumina) ceramic core
- Manufacturing process -Wire winding/ Spot Welding- by Computer Numerical Control (CNC) machine tools to ensure consistency of product quality.
- Encapsulated by epoxy molding compound
- Advanced IC encapsulation mold/die technologies

SPECIFICATIONS

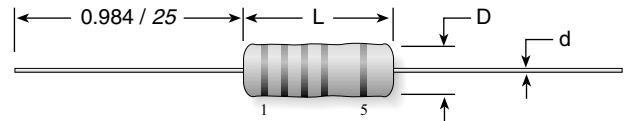
Material
Ceramic Core: CeramTec Rubalit® 96% alumina
End Caps: Stainless steel, precision formed
Leads: Copper wire, 100% Sn (lead free) coated
ISOHMM alloy resistance wire TC+/-20ppm/°C
Encapsulation: SUMICON 1100/1200 Epoxy molding compound for IC encapsulation

Electrical
Standard Tolerance: F (1.0%), J (5.0%)
Temperature Coefficient (ppm/°C):
 ±90 for 0.100Ω
 ±20 for >0.100Ω
Maximum Working Voltage: (PxR)1/2
Derating: Linearly from 100% @ +70°C to 0% @ +150°C.
Operating Temp: -55°C to +150°C



WH/WN Series

Miniature Molded Wirewound



Type	Power Rating (watts)	Resistance Range (Ω)	Dim. L (mm/in)	Dim. D (mm/in)	Dim. d (mm/in)
WHA WNA	0.5	0.100 - 1.0K 0.100 - 250	5.08 / 0.200	2.54 / 0.100	0.60 / 0.024
WHB WNB	1	0.100 - 4.0K 0.100 - 1.0K	7.00 / 0.276	3.00 / 0.120	0.60 / 0.024
WHC WNC	2	0.10 - 8.0K 0.10 - 2.0K	11.4 / 0.450	6.86 / 0.270	0.80 / 0.031

PERFORMANCE CHARACTERISTICS

Test	Conditions of Test	Performance
Thermal Shock	Rated power applied until thermal stability, -55°C +0°C, -5°C, 15min.	±0.2%
Short-time Overload	5 times rated wattage for 5 seconds	±0.2%
Solderability	Method 208 of MIL-STD-202	±0.2%
Terminal Strength	Pull test: 10 pounds, 5 to 10 seconds, Twist test: 1080°, 5 second/rotation	±0.1%
Dielectric Withstanding Voltage	500Volts rms for 1W, 2W 1000Volts rms. 1 minute	±0.1%
High Temperature Exposure	Exposed to an ambient temperature of 275 ±5/-0°C for 250 ±8 hours,	±0.5%
Moisture Resistance	MIL-STD-202 Method 106, 7b not applicable	±0.2%
Low Temperature Storage	Cold chamber at a temperature of -65 ±2°C for 24+/-4 hours	±0.2%
Vibration, High Frequency	Frequency varied 10 to 2000Hz, 200G peak, 2 directions 6 hours each	±0.1%
Load Life	1000/2000 hours at rated power, +25°C, 1.5 hours "On", 0.5 hours "Off"	±0.5%

ORDERING INFORMATION

H = Inductive
 N = Non Inductive
WHA10RFE-T
 Series Power Ohms Tolerance Package
 A = 0.5 B = 1 C = 2 F = 1% J = 5% T = Tape blank = 25pc Pack
 RoHS compliant

KEY TO FIVE-BAND CODE

Band	1	2	3	4	5
Color	Digit	Digit	Digit	Multiplier	Tolerance
Black	0	0	0	x 1Ω	
Brown	1	1	1	x 10Ω	± 1% (F)
Red	2	2	2	x 100Ω	± 2% (G)
Orange	3	3	3	x 1KΩ	
Yellow	4	4	4	x 10KΩ	
Green	5	5	5	x 100KΩ	± 0.5% (D)
Blue	6	6	6	x 1MΩ	± 0.25% (C)
Violet	7	7	7	x 10MΩ	± 0.10% (B)
Grey	8	8	8		± 0.05%
White	9	9	9		
Gold				x 0.1Ω	± 5% (J)
Silver				x 0.01Ω	± 10% (K)

STANDARD PART NUMBERS FOR WH/WN SERIES

Wattage:	0.5	0.5	1.0	1.0	2.0	2.0
Series:	WHA	WNA	WHB	WNB	WHC	WNC
Ohms						
0.1	WHAR10FE	WNAR10FE	WHBR10FE	WNBR10FE	WHCR10FE	WNCR10FE
0.25	WHAR25FE	WNAR25FE	WHBR25FE	WNBR25FE	WHCR25FE	WNCR25FE
0.50	WHAR50FE	WNAR50FE	WHBR50FE	WNBR50FE	WHCR50FE	WNCR50FE
0.75	WHAR75FE	WNAR75FE	WHBR75FE	WNBR75FE	WHCR75FE	WNCR75FE
1	WHA1R0FE	WNA1R0FE	WHB1R0FE	WNB1R0FE	WHC1R0FE	WNC1R0FE
2	WHA2R0FE	WNA2R0FE	WHB2R0FE	WNB2R0FE	WHC2R0FE	WNC2R0FE
4	WHA4R0FE	WNA4R0FE	WHB4R0FE	WNB4R0FE	WHC4R0FE	WNC4R0FE
5	WHA5R0FE	WNA5R0FE	WHB5R0FE	WNB5R0FE	WHC5R0FE	WNC5R0FE
10	WHA10RFE	WNA10RFE	WHB10RFE	WNB10RFE	WHC10RFE	WNC10RFE
15	WHA15RFE	WNA15RFE	WHB15RFE	WNB15RFE	WHC15RFE	WNC15RFE
25	WHA25RFE	WNA25RFE	WHB25RFE	WNB25RFE	WHC25RFE	WNC25RFE
51	WHA51RFE	WNA51RFE	WHB51RFE	WNB51RFE	WHC51RFE	WNC51RFE
75	WHA75RFE	WNA75RFE	WHB75RFE	WNB75RFE	WHC75RFE	WNC75RFE
100	WHA100RFE	WNA100RFE	WHB100RFE	WNB100RFE	WHC100RFE	WNC100RFE
150	WHA150RFE	WNA150RFE	WHB150RFE	WNB150RFE	WHC150RFE	WNC150RFE
200	WHA200RFE	WNA200RFE	WHB200RFE	WNB200RFE	WHC200RFE	WNC200RFE
250	WHA250RFE	WNA250RFE	WHB250RFE	WNB250RFE	WHC250RFE	WNC250RFE
330	WHA330RFE		WHB330RFE	WNB330RFE	WHC330RFE	WNC330RFE
470	WHA470RFE		WHB470RFE	WNB470RFE	WHC470RFE	WNC470RFE
560	WHA560RFE		WHB560RFE	WNB560RFE	WHC560RFE	WNC560RFE
750	WHA750RFE		WHB750RFE	WNB750RFE	WHC750RFE	WNC750RFE
1K	WHA1K0FE		WHB1K0FE	WNB1K0FE	WHC1K0FE	WNC1K0FE
2.5K			WHB2K5FE		WHC2K5FE	

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