WH/WN Series



Miniature Molded Wirewound



FEATURES

- WH precision series
- WN Aryton Perry winding Non-Inductive series: Inductance <1nH at 1MHZ test,
- Designed to meet MIL-R-26F, MIL-STD-202 standard requirements
- 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

CHARACTERISTICS

Ceramic Core	CeramTec Rubalit [®] 85% alumina					
End Caps	Stainless steel, precision formed					
Leads	Copper wire,100% Sn (lead free) coated					
Resistance Wire	ISAOHM [®] wire TC ±20ppm/°C					
Encapsulation	SUMICON 1100/1200 Epoxy molding compound for IC encapsulation					
Standard Tolerance	D (0.5%), F (1.0%), J (5.0%)					
Temperature Coefficient (ppm/°C)	±90 for 0.100Ω-0.99Ω, ±50 for 1.00Ω-10.00Ω, ±20 for >10.00Ω					
Maximum Working Voltage	(PxR) ^{1/2}					
Derating	Linearly from 100% @ +70°C to 0% @ +150°C.					
Operating Temp	-55°C to +150°C					

DIMENSIONS

← 0.	.984 / 25 -	→ ← L		Packaging						
Туре	Wattag	e L	↑ D	d	Tape Width	Pitch	Reel Diam.	Pc/ reel		
WH/N A	0.5	5.08 / 0.200	2.54 / 0.100	0.60 / 0.024	64 / 2.520	5.0 / 0.197	290 / 11.41	1000		
WH/N B	1	7.00 / 0.276	3.30 / 0.130	0.60 / 0.024	64 / 2.520	5.0 / 0.197	290 / 11.41	1000		
WH/NC	2	11.4 / 0.450	4.57 / 0.180	0.80 / 0.031	64 / 2.520	10 / 0.393	290 / 11.41	1000		
WH/N D	3	13.54 / 0.530	5.50 / 0.216	0.80 / 0.031	84 / 3.307	10 / 0.393	290 / 11.41	500		
WH/NE	5	20.00 / 0.790	7.50 / 0.295	1.00 / 0.039	84 / 3.307	10 / 0.393	290 / 11.41	500		

(continued)

Туре	Power Rating (watts)	Resistance Range (Ω)	Weight (g/1000pc)
WHA	0.5	0.100 - 1.0K	216
WNA		0.100 - 250	
WHB	1	0.100 - 4.0K	296
WNB		0.100 - 1.0K	
WHC	2	0.10 - 8.0K	712
WNC		0.10 - 2.0K	
WHD	3	0.10 - 25K	1160
WND		0.10 - 5.0K	
WHE	5	0.10 - 50K	2920
WNE		0.10 - 10K	

SERIES SPECIFICATIONS

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PERFORMANCE CHARACTERISTICS

Test	Conditions of Test	Performance
Thermal shock	Environmental chamber, -55°C +0°C, -3°C to 150°C +3°C, -0°C, 5 cycles, minimum 15 min. at each extreme	±(1.0% + 0.5mΩ)ΔR
Short-time overload	Overload voltage 5x rated wattage for 5 sec.	±(0.5% + 0.5mΩ)∆R
Solderability	Bath temp. 260°C \pm 5°, immersion time 5 sec. \pm 0.5, JIS C 5201 4.18	>90% of contact face covered new solder
	Bath temp. 260°C \pm 5°, immersion time 5 sec. \pm 0.5, JIS C 5201 4.18	±(0.5% + 0.5mΩ)∆R
Dielectric withstanding voltage	Magnitude of test voltage >500 volts rms.; duration 1 min.	Pass
Insulation resistance	Magnitude of test voltage 500 volts rms. ±10%; duration 1 min.	>10 ⁹ Ω
High Temperature Exposure	Exposed to an ambient temperature of 175°C +5°/-0° for 250 ± 8 hours	±(1.0% + 0.5mΩ)ΔR
Low Temperature Storage	At a temperature of -65°C \pm 2° for a period of 24 hours \pm 4	±(0.5% + 0.5mΩ)∆R
Life	Test temp. at 70°C \pm 2°, rated DC continuous working voltage applied, 1.5 hours on and 0.5 hours off, 1000 hours	±(2.0% + 0.5mΩ)∆R

HOW TO ORDER

H = Inductive N = Non Inductive RoHS compliant	Standard part	numbers	5							
WHA10RFET	Wattage: 0.5 Series: WHA	0.5 WNA	1.0 WHB	1.0 WNB	2.0 WHC	2.0 WNC	3.0 WHD	3.0 WND	5.0 WHE	5.0 WNE
I I I Series Power Ohms Tolerance Package	Ohms									
A = 0.5 F = 1% T = Tape	0.1 WHAR10FE	WNAR10FE	WHBR10FE	WNBR10FE	WHCR10FE	WNCR10FE	WHDR10FE	WNDR10FE	WHER10FE	WNER10FE
B =1 J = 5% blank = 25pc C = 2 D = 0.5% pack D = 3	0.25 WHAR25FE 0.5 WHAR50FE 0.75 WHAR75FE	WNAR25FE WNAR50FE WNAR75FE	WHBR25FE WHBR50FE WHBR75FE	WNBR25FE WNBR50FE WNBR75FE	WHCR25FE WHCR50FE WHCR75FE	WNCR25FE WNCR50FE WNCR75FE			WHER50FE	WNER50FE
E = 5	1 WHA1R0FE	WNA1R0FE	WHB1R0FE	WNB1R0FE	WHC1R0FE		WHD1R0FE	WND1R0FE	WHE1R0FE	WNE1R0FE
	2 WHA2ROFE 4 WHA4ROFE 5 WHA5ROFE 10 WHA10RFE 15 WHA15RFE	WNA2ROFE WNA4ROFE WNA5ROFE WNA10RFE WNA15RFE	WHB2R0FE WHB4R0FE WHB5R0FE WHB10RFE WHB15RFE	WNB2R0FE WNB4R0FE WNB5R0FE WNB10RFE WNB15RFE	WHC2R0FE WHC4R0FE WHC5R0FE WHC10RFE WHC15RFE	WNC2R0FE WNC4R0FE WNC5R0FE WNC10RFE WNC15RFE	WHD5R0FE WHD10RFE WHD15RFE	WND5R0FE WND10RFE WND15RFE	WHE5R0FE WHE10RFE WHE15RFE	WNE5R0FE WNE10RFE WNE15RFE
	25 WHA25RFE 51 WHA51RFE 75 WHA75RFE 100 WHA100FE 150 WHA150FE	WNA25RFE WNA51RFE WNA75RFE WNA100FE WNA150FE	WHB25RFE WHB51RFE WHB75RFE WHB100FE WHB150FE	WNB25RFE WNB51RFE WNB75RFE WNB100FE WNB150FE	WHC25RFE WHC51RFE WHC75RFE WHC100FE WHC150FE	WNC25RFE WNC51RFE WNC75RFE WNC100FE WNC150FE	WHD100FE	WND100FE	WHE100FE WHE150FE	WNE100FE WNE150FE
	200 WHA200FE 250 WHA250FE 330 WHA330FE 470 WHA470FE 560 WHA560FE	WNA200FE WNA250FE	WHB200FE WHB250FE WHB330FE WHB470FE WHB560FE	WNB200FE WNB250FE WNB330FE WNB470FE WNB560FE	WHC200FE WHC250FE WHC330FE WHC470FE WHC560FE	WNC200FE WNC250FE WNC330FE WNC470FE WNC560FE	WHD250FE WHD560FE		WHE250FE WHE560FE	WNE250FE WNE560FE
	750 WHA750FE 1K WHA1K0FE 2.5K 5K 10K		WHB750FE WHB1K0FE WHB2K5FE	WNB750FE WNB1K0FE	WHC750FE WHC1K0FE WHC2K5FE	WNC750FE WNC1K0FE	WHD1K0FE WHD5K0FE WHD10KFE	WND1K0FE WND2K5FE	WHE1K0FE WHE5K0FE WHE10KFE	WNE1K0FE WNE5K0FE WNE10KFE
	25K								WHE25KFE	

rev 8/19-1



OHMITE.

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Ohmite:

WNAR10FE WNAR25FE WNAR50FE WNAR75FE WNA1R0FE WNA2R0FE WNA4R0FE WNA5R0FE WNA10RFE WNA15RFE WNA25RFE WNA51RFE WNA75RFE WNA100FE WNA150FE WNA200FE WNA250FE WNBR10FE WNBR25FE WNBR50FE WNBR75FE WNB1R0FE WNB2R0FE WNB4R0FE WNB5R0FE WNB10RFE WNB15RFE WNB25RFE WNB51RFE WNB75RFE WNB100FE WNB150FE WNB200FE WNB250FE WNB330FE WNB470FE WNB260FE WNB750FE WNB1K0FE WNCR10FE WNCR25FE WNCR50FE WNC75FE WNC1R0FE WNC2R0FE WNC4R0FE WNC5R0FE WNC10RFE WNC15RFE WNC25RFE WNC51RFE WNC75RFE WNC100FE WNC150FE WNC200FE WNC250FE WNC330FE WNC470FE WNC560FE WNC750FE WNC1K0FE WHAR10FE WHA25FE WHAR50FE WHA75FE WHA1R0FE WHA2R0FE WHA4R0FE WHA5R0FE WHA10RFE WHA25FE WHAR50FE WHA75FE WHA1R0FE WHA2R0FE WHA4R0FE WHA5R0FE WHA10RFE WHA330FE WHA470FE WHA51RFE WHA75RFE WHA100FE WHA150FE WHA200FE WHA250FE WHA330FE WHA470FE WHA50FE WHA50FE WHA750FE WHA1K0FE WHBR10FE WHB15FE WHB50FE WHB75FE WHB1R0FE WHB2R0FE WHB5R0FE WHB10RFE WHB15RFE WHB25RFE WHB51RFE WHB75RFE WHB100FE WHB150FE WHB200FE WHB250FE