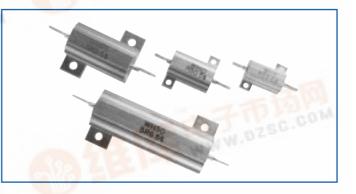
捷多邦,专业PCB打样工厂,24小时加急出货

Welwyn

Chassis Mounting Wirewould Resistors

WH SERIES

- High quality ceramic substrate
- All welded construction
- Anodised extruded aluminium case
- High power dissipation for size
- Suitable for severe environments
- Designed for excellent thermal conductivity to heatsink



Electrical Data

-16 -1-17		WH5	EH10	WH25	WH50	NOTES
Power rating at 25°C	watts	10	15	25	50*	Mounted on
						standard heatsink
Resistance range	ohms	0.01 to 10k	0.01 to 20k	0.01 to 44k	0.015 to 120k	W.DZS
TCR (-55° to 200°C)	ppm/°C	<10Ω:±	75 ≥ to <10	Al an		
Resistance tolerance	%		1, 2,			
Low value limits	ohms	1 at 1%	0.5 at 2% C	0.05 at 5% (0.01 at 10%	WH50 0.015 at 10%

APPROVED CECC 40203 - 006		AA	BA	CA	DA	
Power rating at 25°C	watts	10	15	25	40	Mounted on
G-1/2						standard heatsink
Resistance range	ohms	0.05 to 3.4k	0.05 to 15k	0.05 to 33k	0.05 to 82k	- 17 [2]
TCR (-55° to 200°C)	ppm/°C	$\geq 5\Omega \leq 10\Omega \pm 100 > 10\Omega \pm 50$			TICOM	
Resistance tolerance	%	1, 2, 5			P2.0250.	
Low value limits	ohms	1 at 1% 0.5 at <mark>2% 0.05 at 5%</mark>			Al Maria	

				and the second			
Limiting element voltage volts		150	250	500	1250		
Standard values		7-17-2	E24 prefe	Other values			
100		.w. 8250		to special order			
Thermal impedance	°C/watt	16.0	10.0	6.0	3.5	Mounted on	
	-					standard heatsink	
Operating temperature range °C			-55 te	-17.00			
*For load at maximum rating mount on heatsink 30.5 cm x 30.5 cm x 1.5 mm							
CONCTRUCTION		,					

CONSTRUCTION

Cap and lead assemblies are fitted to a high purity ceramic substrate. The resistive element is wound onto the substrate and welded to the caps. The wound rod is then NWW.DZSC.COM moulded and fitted into an aluminium housing to give optimum stability and reliability.

TERMINATIONS

PD PD General Note

Material	Solder dipped, copper clad steel wire.
Strength	The terminations meet the requirements of IEC 68.2.21
Solderability	The terminations meet the requirements of IEC 115-1, Clause 4.17.3.2

MARKING

The resistors are legend marked with type reference, resistance value and tolerance. Values are marked in accordance with IEC 62.

SOLVENT RESISTANCE

Resistor and marking withstand all accepted industrial cleaning fluids.

verwyn Components reserves the right to make changes in product specification without notice or liability. Alchiomation is subject to Welwyn's own data and is considered accurate at time of going to print.

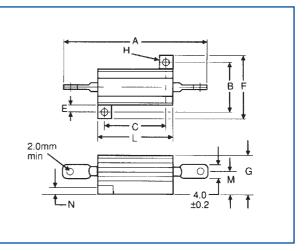


Chassis Mounting Wirewound Resistors

WH SERIES

Physical Data

DIMENS	DIMENSIONS (MM)									
Туре	Α	В	С	E	F					
	Max	±0.3	±0.3	Min	Max					
WH5	30.0	12.4	11.3	1.9	17					
WH10	36.5	15.9	14.3	1.9	21					
WH25	51.0	19.8	18.3	2.8	28					
WH50	72.5	21.4	39.7	2.8	30					
Туре	G	Н	L	М	Ν					
	Max	Dia ±0.2	Max	±0.5	Max					
WH5	9	2.4	17.0	4.3	1.8					
WH10	11	2.4	21.0	5.2	2.2					
WH25	15	3.3	29.0	7.2	2.6					
WH50	16	3.3	51.0	7.9	2.6					



Performance Data

		CECC	ECC ACTUAL		NOTES	
		40203-006	MAXIMUM	TYPICAL		
Load at commercial rating: 1000 hrs at 25	°C Δ R %	1.0	1.0	0.4		
Load at CECC rating: 1000 hours at 25°C	ΔR %	1.0	1.0	0.4		
Dry heat: 100 hours at 200°C	ΔR %	1.0	1.0	0.4		
Derating from 25°C		Zero at 200°C				
Short term overload	ΔR %	1.0	1.0	0.2		
Climatic sequence	ΔR %	1.0	1.0	0.4		
Climatic category		55/200/56				
Long term damp heat	ΔR %	1.0	0.5	0.2		
Temperature rapid change	ΔR %	0.25	0.25	0.1		
Resistance to solder heat	ΔR %	0.25	0.25	0.05		
Vibration and bump	ΔR %	0.25	0.25	0025		
Noise (in decade of frequency)	μV/V	Not specified	zero	zero		
Insulation resistance.	ohms	>1Gohm	>20Tohm	>100Gohm		
Isolation voltage : WH5 and 10 vo	olts AC peak	1000 min	1500 min		See application	
: WH25 and 50 vo	olts AC peak	2000 min	3000 min		notes	



Chassis Mounting Wirewound Resistors

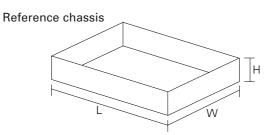
WH SERIES

APPLICATION NOTES

Reference aluminium heatsink dimension

CECC 40203-006	L	W	н	REFERENCE
	СМ	СМ	СМ	AREA SQ. CM
AA, BA	15.5	10	5	410
CA, DA	18	13	5	544

Aluminium thickness 1mm



Derating must be applied when resistors are mounted on a heat sink of smaller dimensions than defined in the table for reference heatsink.

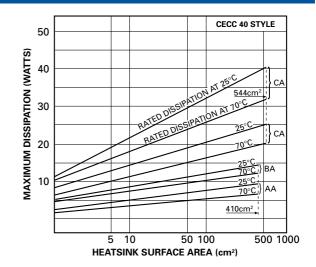
It is recommended that the resistor base should be coated with silicone grease before mounting to obtain the stated operating characteristics.

The grease increases thermal conductivity to the heatsink.

After soldering care should be taken to ensure that there are no flux residues on the moulding compound, otherwise insulation resistance will be reduced.

PACKAGING

Resistors are packed in plastic bags and boxed for maximum protection.



WH50 ONLY

To load at maximum commercial rating (50W) mount on heatsink 30.5cm x 30.5cm x 1.5mm.

General Note

Welwyn Components reserves the right to make changes in product specification without notice or liability. All information is subject to Welwyn's own data and is considered accurate at time of going to print.

Nolymp Components Limited