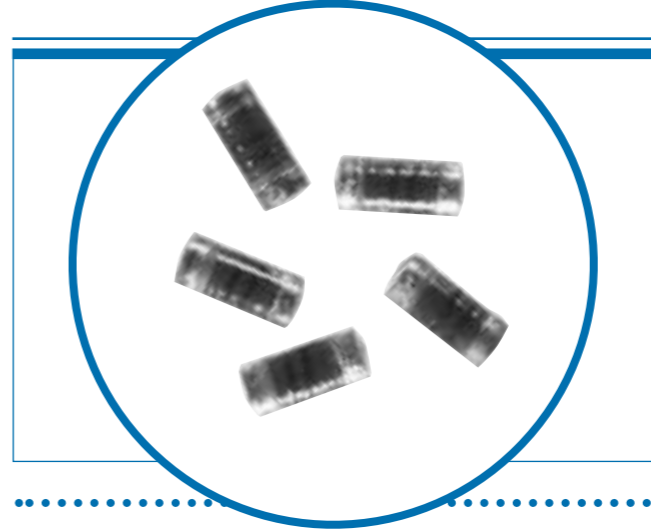


Metal Glaze™ General Purpose Surface Mount Power Resistors



CHP Series

- Up to 2 watts
- 0.1 ohm to 2.2 megohm range
- Up to 1000 volts
- 150°C maximum operating temperature



Electrical Data

Type	Maximum Power Rating (watts)	Working Voltage (volts)	Maximum Voltage (volts)	Resistance Range (ohms)	Tolerance (%) ¹	TCR (ppm/°C) ²	Product Category
CHP1/8	0.25 @ 70°C	200	400	1R0 to 1M	1, 2, 5	50, 100	Standard
				20R to 348K	0.25, 0.5	50, 100	Tight Tolerance
CHP1/2	0.5 @ 70°C	300	600	1R0 to 348K	1, 2, 5	50, 100	Standard
				20R to 348K	0.25, 0.5	50, 100	Tight Tolerance
CHP1	1 @ 70°C	350	700	1R0 to 2M21	1, 2, 5	50, 100	Standard
				20R to 348K	0.25, 0.5	50, 100	Tight Tolerance
CHP2	2 @ 25°C 1.33 @ 70°C	500	1000	1R0 to 0R99	1, 2, 5	100	Low Range
				20R to 2M21	1, 2, 5	50, 100	Standard

¹ Not to exceed V_{PXR}

² Consult factory for tighter TCR, tolerance or resistance values

Performance Characteristics

Characteristics	Maximum Change	Test Method
Temperature	As Specified	MIL-R55342E Par 4.79 (-55°C = 125°C)
Thermal Shock	±0.5% +0.01 ohm	MIL-R55342E Par 4.73 (-65°C +150°C, 5 cycles)
Low Temperature Operation	±0.25% +0.01 ohm	MIL-R-55342E Par 4.74 (-65°C @ working voltage)
Short Time Overload	±0.5% +0.01 ohm	MIL-R-55342E Par 4.7.5
High Temperature Exposure	±0.5% +0.01 ohm	2.5 x V _{PXR} for 5 seconds
Resistance to Bonding Exposure	±0.25% 0.01 ohm	MIL-R-55342E Par 4.7.6 (+150°C for 100 hours)
Resistance to Board Bending	±1% +0.01 ohm	MIL-R-55342E Par 4.7.7 (Reflow soldered to board at 260°C for 10 seconds)
Solderability	95% minimum coverage	MIL-STD-202, Method 208 (245°C for 5 seconds)
Moisture Resistance	±0.5% +0.01 ohm	MIL-R-55342E Par 4.7.8 (10 cycles, total 240 hours)
Life Test	±0.5% +0.01 ohm	MIL-R-55342E Par 4.7.10 (2000 hour at 70°C intermittent)
Terminal Adhesion Strength	±1% +0.01 ohm	1200 gram push from underside of mounted chip for 60 seconds
Resistance to Board Bending	±1% +0.01 ohm	Chip mounted in center of 90mm long board, deflected 5mm so as to exert pull on chip for 10 seconds

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.



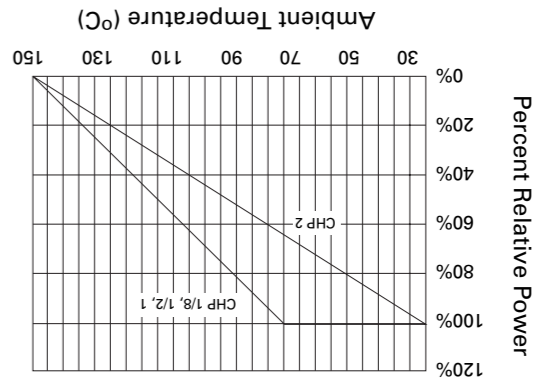
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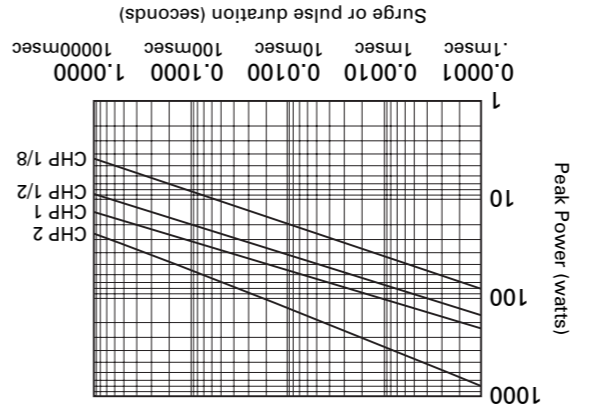
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Metal Glaze™ General Purpose Surface Mount Power Resistors

CHP Series



CHP Power Derating Curve



CHP Repetitive Surge Curve

Note: Use for repetitive pulses where the average power dissipation is not to exceed the component rating at 70°C. Surge handling capacity for low-repetitive surges may be significantly greater than shown above. Contact factory for recommendations.

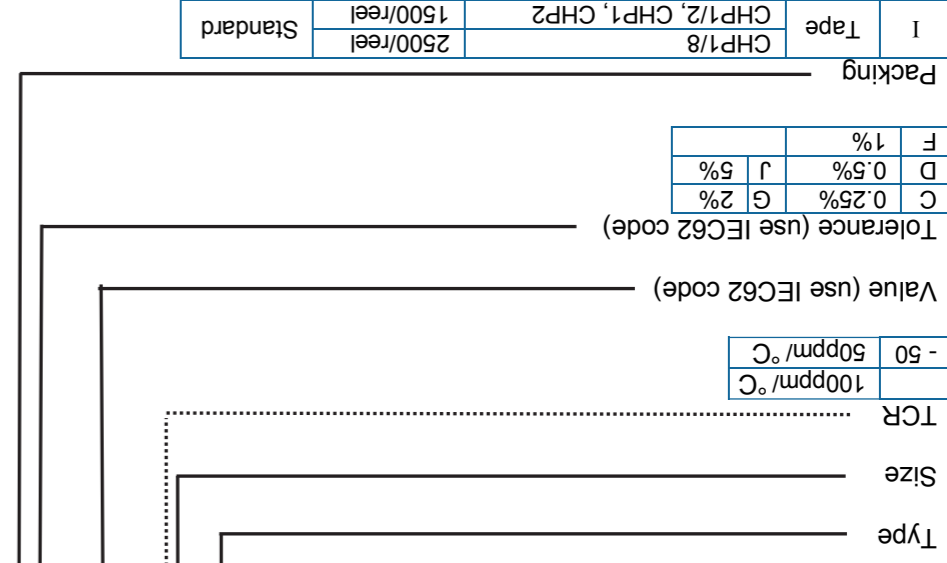
Physical Data

Size Code	Industry Footprint	L	W	C
CHP1/8	1206	3.25±0.18	1.45±0.15	0.51±0.25
CHP1/2	2010	5.08±0.25	2.01±0.15	0.761±0.25
CHP1	2512	6.38±0.25	2.01±0.15	1.02±0.25
CHP2	3610	9.32±0.25	2.67±0.15	1.27±0.25



Ordering Procedure

Example: CHP1 at 100 ohms, 1% tolerance and 100ppm/°C on a reel of 1500 pieces -



Code	Tolerance
F	1%
D	0.5%
J	5%
C	0.25%
G	2%

Code	TCR
-50	50ppm/°C
	100ppm/°C

I	Tape	CHP1/8
1	CHP1/2, CHP1, CHP2	2500/reel
	Standard	1500/reel

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