

Available in two sizes ARCOL's CRS utilises Electron Beam Welding technology to connect its Manganin or NiCr element to heavy copper connectors. Suitable for typical applications such as Solar Inverters, Frequency converters & current sensors for hybrid power sources.

- Excellent long-term stability and low inductance
- Suitable for mounting using re-flow soldering or welding on copper
- Power rating upto 7 Watts



Characteristics

Tolerance (Code):	$\pm 1\%$ (F), $\pm 5\%$ (J)
Operating temperature:	-55°C to +170°C
Overload:	5 times rated power for 5 seconds
Thermal shock:	$\pm 0.1\%$. -65°C, 25°C, 125°C, 25°C, 25 cycles
Load life:	$\pm 1\%$. 90min. "ON", 30min "OFF" for 2000 hours
Moisture resistance:	$\pm 0.2\%$. 90~98%RH, +25°C, +65°C, -10°C, 10 cycles.
Resistance to Soldering Heat:	$\pm 0.2\%$. 350°C for 30 seconds or 250°C for 10min.
High Temperature Exposure:	$\pm 0.2\%$. 140°C for 250 hours
Vibration, High frequency:	$\pm 0.2\%$. 15g 10~2000Hz, 36 cycles
Inductance	<3nH

Dimensions (mm)

Size	Value	Material	Thickness (t)
CRS1050	0.5mΩ	Manganin	0.88mm±0.1
CRS1050	1mΩ	Manganin	0.43mm±0.1
CRS1050	2mΩ	NiCr alloy	0.64mm±0.1
CRS1050	3mΩ	NiCr alloy	0.43mm±0.1
CRS1050	4mΩ	NiCr alloy	0.32mm±0.1
CRS1575	0.2mΩ	Manganin	1.50mm±0.1
CRS1575	0.5.mΩ	Manganin	0.56mm±0.1
CRS1575	1mΩ	NiCr alloy	0.90mm±0.1
CRS1575	2mΩ	NiCr alloy	0.45mm±0.1
CRS1575	3mΩ	NiCr alloy	0.30mm±0.1



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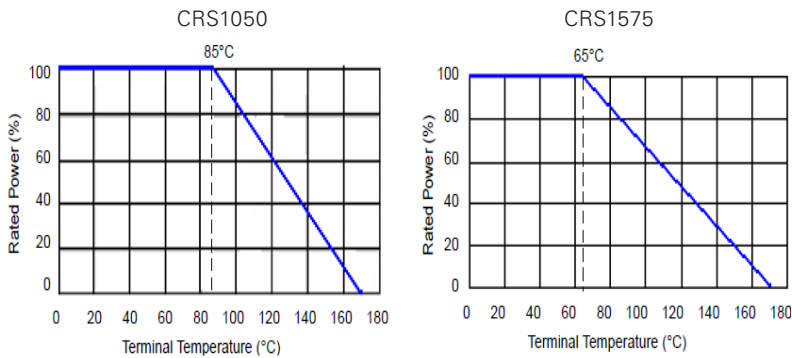
The information contained herein does not form part of a contract and is subject to change without notice. ARCOL operate a policy of continual product development, therefore, specifications may change.

It is the responsibility of the customer to ensure that the component selected from our range is suitable for the intended application. If in doubt please ask ARCOL.

Electrical Specifications

Type	Wattage (Rated Power)	Resistance Range		TCR (PPM/°C) (+20°C~+150°C)
		F(±1%)	J(±5%)	
CRS1050	5	R0005 (0.5mΩ)		±75
CRS1050	4	R001 (1mΩ)		±60
CRS1050	4	R002 (2mΩ)		±100
CRS1050	3	R003 (3mΩ)		±100
CRS1050	2.5	R004 (4mΩ)		±100
CRS1575	7	R0002 (0.2mΩ)		±50
CRS1575	6	R0005 (0.5mΩ)		±100
CRS1575	6	R001 (1mΩ)		±120
CRS1575	4	R002 (2mΩ)		±120
CRS1575	3.5	R003 (3mΩ)		±120

Derating Curve

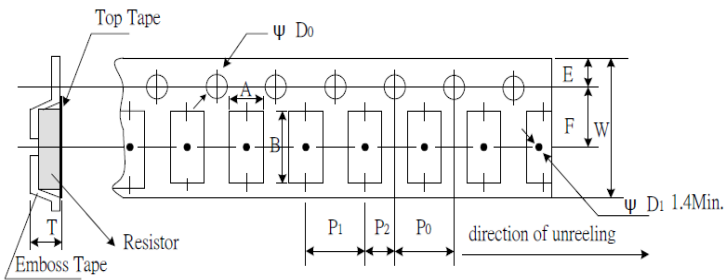


Ordering Procedure

Standard Resistor: Series, Resistance Value, Tolerance,TCR,Packaging (TR: Tape & Reel, B: Bulk)
e.g: CRS1050 R001 J 60ppm TR

Packaging

Emboss Plastic Tape Specifications



Type	A	B	W	E	F	P0	P1	P2	ØD0	T	Quantity (EA)
CRS1050	5.7	11.2	16	1.75	7.5	4	12	6	1.50	1.2	3000
CRS1575	8.2	16.1	24	1.75	11.5	4	12	6	1.50	1.9	2000

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Mouser Electronics

Authorized Distributor

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Ohmite:

[CRS1050 R0005 F 75PPM TR](#) [CRS1050 R0005 J 75PPM TR](#) [CRS1050 R001 F 60PPM TR](#) [CRS1050 R001 J](#)
[60PPM TR](#) [CRS1050 R002 F 100PPM TR](#) [CRS1050 R002 J 100PPM TR](#) [CRS1050 R003 F 100PPM TR](#) [CRS1050](#)
[R003 J 100PPM TR](#) [CRS1050 R004 F 100PPM TR](#) [CRS1050 R004 J 100PPM TR](#) [CRS1575 R0002 F 50PPM TR](#)
[CRS1575 R0002 J 50PPM TR](#) [CRS1575 R0005 F 100PPM TR](#) [CRS1575 R0005 J 100PPM TR](#) [CRS1575 R001 F](#)
[120PPM TR](#) [CRS1575 R001 J 120PPM TR](#) [CRS1575 R002 F 120PPM TR](#) [CRS1575 R002 J 120PPM TR](#) [CRS1575](#)
[R003 F 120PPM TR](#) [CRS1575 R003 J 120PPM TR](#) [CRS1050 R0005 F 75PPM B](#) [CRS1050 R0005 J 75PPM B](#)
[CRS1050 R001 F 60PPM B](#) [CRS1050 R001 J 60PPM B](#) [CRS1050 R002 F 100PPM B](#) [CRS1050 R002 J 100PPM B](#)
[CRS1050 R003 F 100PPM B](#) [CRS1050 R003 J 100PPM B](#) [CRS1050 R004 F 100PPM B](#) [CRS1050 R004 J 100PPM B](#)
[CRS1575 R0002 F 50PPM B](#) [CRS1575 R0002 J 50PPM B](#) [CRS1575 R0005 F 100PPM B](#) [CRS1575 R0005 J](#)
[100PPM B](#) [CRS1575 R001 F 120PPM B](#) [CRS1575 R001 J 120PPM B](#) [CRS1575 R002 F 120PPM B](#) [CRS1575 R002 J](#)
[120PPM B](#) [CRS1575 R003 F 120PPM B](#) [CRS1575 R003 J 120PPM B](#)