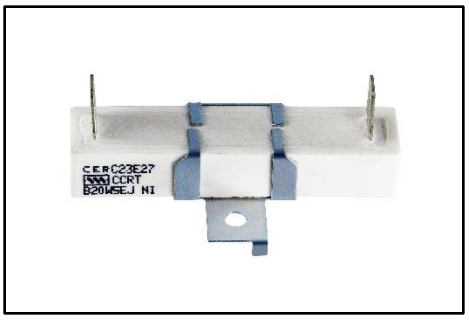
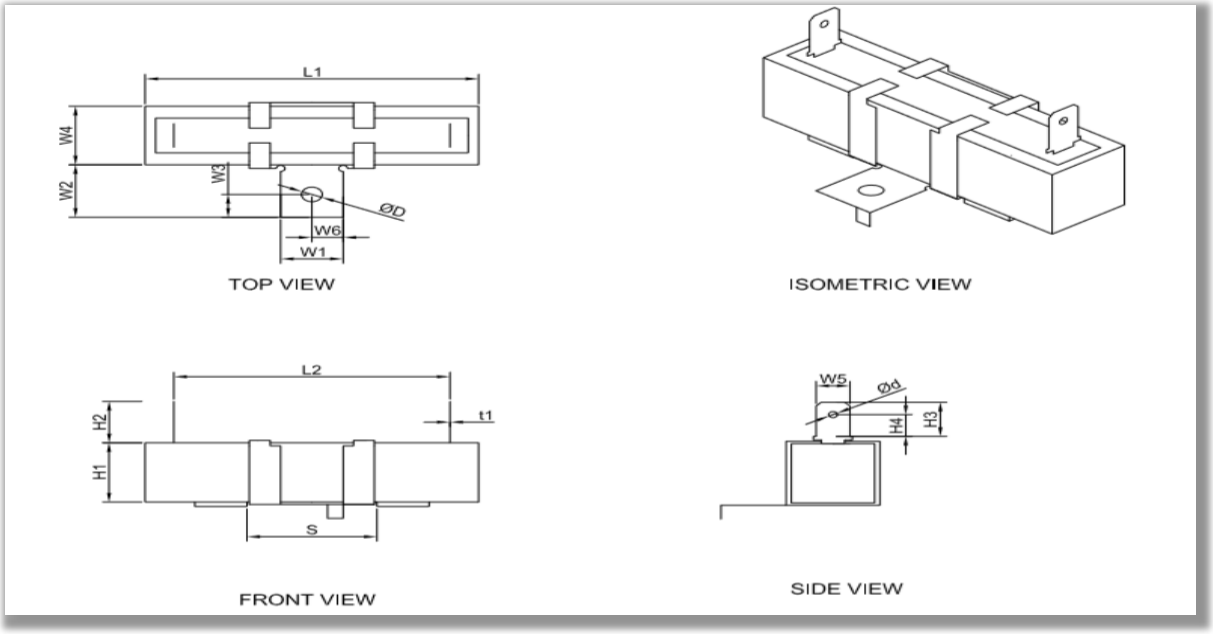
WIRE WOUND RESISTOR (CCRT SERIES)

CERMET RESISTRONICS PVT LTD



- High Grade resistance wire wound Element on Ceramic Core
- Encased in Ceramic & sealed with flame proof silicon Cement
- Flame proof & Ability of resistance to Voltage
- Super Heat Dissipation & Low temp Co-efficient
- Flame proof & Ability of resistance to Voltage
- High Stability, High frequency & No Noise
- High Surge withstanding capability
- High Ohmic values with MOR element
- Standard tolerance 5% & 10%
- Used in circuit of automatic control system, frequency conversion controls system, Power supply.



SR.NO.	Power Rating.	DIMENSIONS IN MM															
		L1 ±2	L2 ±2	W1 ±1	W2 ±1	W3 ±1	W4 ±1	W5 ±1	H1 ±1	H2 ±2	H3 ±1	H4 ±1	ØD ±0.3	Ød ±0.2	t 1 ±0.2	t 2 ±0.2	S ±2
1	CCRT-20W	63	50	11.5	11.5	6	12.5	6.5	12.5	11	8	4	4.0	2.0	0.8	0.8	25
2	CCRT-30W	74.5	52	18	18	8	19	6.5	19	11	8	4	4.0	2.0	0.8	0.8	40
3	CCRT-40W	89.5	67.5	18	18	8	19.5	6.5	19	11	8	4	4.0	2.0	0.8	0.8	40

- **Power Derating Curve**

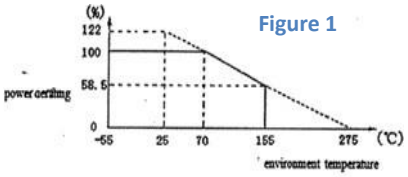


Figure 1

Environment Temp	Power									
70^0C	2	3	5	7	10	12	16	20	24	32
20^0C	2	3	5	7	10	15	20	25	30	40

Environment Temp	0-70^0C	Above 70^0C
Power Derating	100%	See the Figure1

- **Specifications**

Sr. No	Characteristics	Test Methods	Limits
1	D C Resistance	Resistors are tested with standard specified voltages for its Ohmic values to check the specified tolerance	The Resistors shall be within specified tolerance limits
2	Short time Overload	The resistors shall be subjected to 3 times the rated wattage for duration of 5 secs.	ΔR% = ±3.0% (+ 0.05Ω)
3	Terminal strength	Pull Test-The resistor leads shall be pulled using 5N force Bend test-The Resistor leads are bend through 180^0 three times	No evidence of mechanical damage
4	Solderability	A solder bath is maintained at 230 ^{0}C. The specimen leads are immersed in the bath & withdrawn within 3 secs. A suitable flux is used during the test	A fresher solder shall cover the specimen leads by min 95% coverage.
5	Temperature co-efficient	The resistors value shall be checked at 2 temp i.e. one at Ambient & the final at Ambient + 100 ^{0}C. The TCR is in "PPM/^{0}C"	300PPM (Lower PPM on request)
6	Incombustibility	The resistor shall be subjected to 6 times the rated wattage for a duration of 5 min	The resistors shall not catch flame
7	Rated Load	A rated continuous working voltage or maximum working. Voltage whichever less shall be applied to the resistors for a duration of 2Hrs	ΔR% = ±2 % Max
8	Resistance to solvents	The specimen shall be subjected to IPA for duration of 1Min. 10strokes of hard brush shall be applied. The test shall be conducted 3 times	The marking shall remain legible.
9	Resistance to solder Heat	A solder bath is maintained at 350 ^{0}C. The specimen leads are subjected to the bath for a duration of 10 secs	ΔR% = ±1 % Max
10	Dielectric withstanding voltage	A voltage of 2.5KV shall be applied between body & terminal of the specimen for a duration of 1 min.	No evidence of mechanical damage or insulation breakdown

CERMET RESISTRONICS PVT. LTD
Gate No. 61, Plot No. 1 & 2, Tal. Bhor, Shindewadi, Pune- 412205, Maharashtra, India
Contact No. :- +91 9921050098 / 9975596459 / 9975596456
E-mail: - sales@cermet.co.in
Website: - www.resistorcermet.com