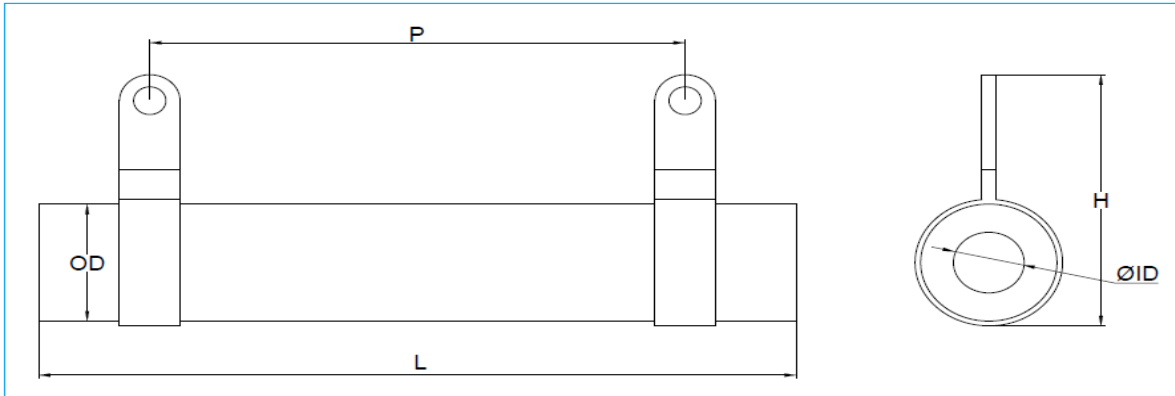


- High Power Wire Wound Resistors Industrial Grade
- Most Suitable For Load banks
- Flame Proof Silicon Coated
- Super Heat dissipation
- High Stability



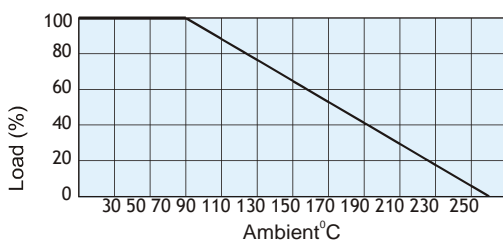
**Drawing:**



**Dimensions:**

Value (Watt)	DIMENSIONS ( in mm )					Bracket Type	Max.Ohmic Range
	L ±3	OD±2	ID±2	P±3	H±2		
CSFR 15W	63	12	9	41	28	CR101	3 K Ohms
CSFR 20W	52	14	9	30	28	CR101	5 K Ohms
CSFR 25W	75	14	7	53	30	CR101	5 K Ohms
CSFR 40W	102	18	8	76	33	CR101	5 K Ohms
CSFR 50W	102	23	13	76	40	CR101	10 K Ohms
CSFR 75W	102	32	20	74	50	CR102	10 K Ohms
CSFR 100W	151	32	20	123	50	CR102	10 K Ohms
CSFR 125W	165	27	16	137	43	CR101	15 K Ohms
CSFR 150W	200	32	19	172	50	CR102	15 K Ohms
CSFR 200W	250	32	19	222	50	CR102	15 K Ohms
CSFR 250W	300	40	24	260	60	CR103	15 K Ohms
CSFR 300W	350	40	24	310	60	CR103	15 K Ohms
CSFR 400W	400	46	29	360	60	CR103	15 K Ohms
CSFR 500W	400	46	29	360	65	CR103	15 K Ohms
CSFR 1000W	380	75	55	340	100	CR103	15 K Ohms
CSFR 1200W	380	75	55	340	100	CR103	15 K Ohms

**Power Derating Curve**



**Note:**

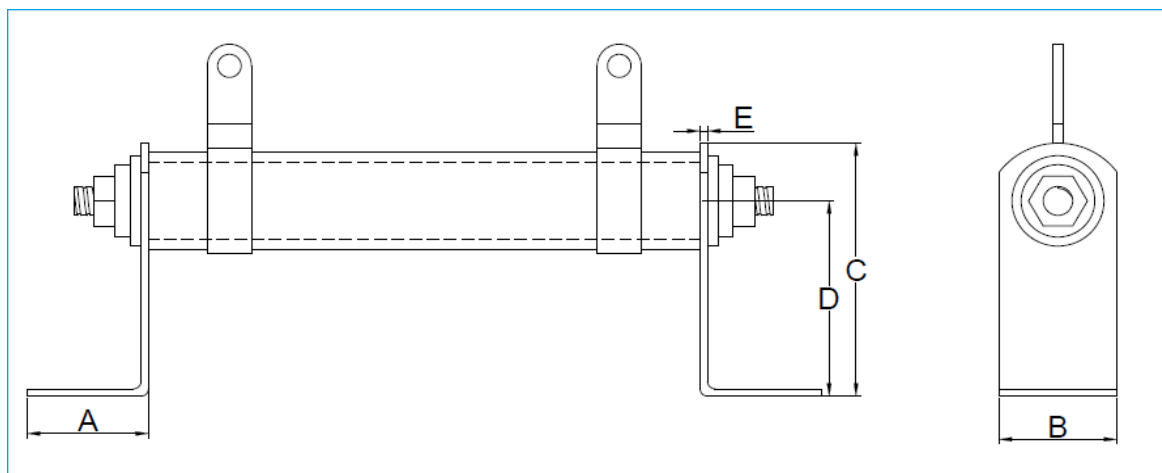
- Closer Tolerances Available on Request
- Ohmic Value other than specified on Request
- Non Inductive Types available on Request
- Standard Mounting Brackets available
- Custom Built Mounting Brackets on Request
- Resistor Terminations are nickel plated on MS.
- TCR on request available.

Note: Customized variations available on request.

Characteristics	Test Methods	Limits
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.
Short Time Overload	The Resistors shall be subjected to 5 times the Rated Voltage or Maximum overload voltage (Whichever is low) For a duration of 5 secs.	$\Delta R \% = \pm 2.0\%$ (+ 0.05 $\Omega$ )
Temp-Coefficient	The Resistors value shall be checked at 2 temps. i.e. one At Ambient & the final at Amb. + 100 °C. The TCR is then Calculated as : $\frac{R_2 - R_1}{R_1} \times \frac{1}{t_2 - t_1} \times 10^6 = \text{ppm} / ^\circ \text{C}$	PPM $\pm 200$ PPM  For Low values TCR Exceeds
Rated Load	A Rated Continuous Working Voltage or Maximum Wkg. Voltage whichever less shall be applied to the resistors for a duration of 2 Hrs.	$\Delta R \% = \pm 2 \% \text{ Max}$
Insulation Resistance	The Insulation is measured between the terminals (Both the Terminals are Shorted) & the body of the resistor, with the help Of 500 V. Megger.	> 1000 Meg

**Mounting Specifications (mm):**

BRACKET TYPE	A±1	B±1	C±1	D±1	E+0.3	MOUNTING SLOT±1
CR 101	16.5	16	35	27	1	8.5x5.5
CR 102	24.5	30	52	37	1	14x7
CR 103	30	40	80	65	1	23x6.7



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