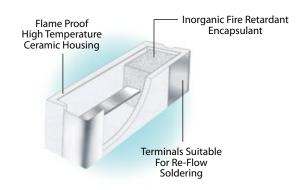
Rev Date: 08/02/2025





SURFACE MOUNT RESISTORS CERAMIC ENCASED TYPE

HCALS SERIES POWER TYPE

POWER TYPE Ceramic Encased

Current Sense Resistors

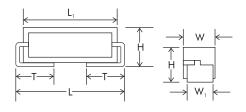
• Tape and Reel
packing available.
• 2W TO 3W
• R001 TO R10







PHYSICAL CONFIGURATION





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PROFILE

HTR TYPE	POWER RATING		DIMENSIONS (mm)					RESISTANCE RANGE		TYPICAL WEIGHT	SIZE	PACKAGING NO. OF PCS
TIPE	70°C	L	L,	Н	W	W ₁	Т	min max	PER PC (gms)		PER REEL	
C2LS	2W	11.0 (±0.8)	10.0 (±0.7)	5.3 (±0.6)	7.0 (±0.7)	5.5 (±0.3)	2.25 (min)	R001	R08	0.8	4527	1000
C3LS	3W	17.0 (±0.8)	16.0 (±0.7)	7.8 (±0.6)	7.0 (±0.7)	5.5 (±0.3)	2.5 (min)	R001	R10	2.0	6927	600

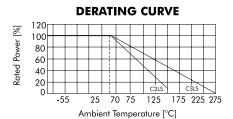
Resistance values must be checked using 41/2 digit micro ohm meter with 4 wire system

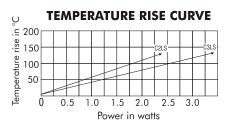
IMPORTANT MOUNTING / ASSEMBLY DATA

For the guidance of the Design Engineer, our applications laboratory has given the recommended Pad size and Geometry which is shown below:

	 ←—— c− 		- E	3
\leftarrow A \rightarrow				-

HTR	DIMENSIONS (mm)				
TYPE	Α	В	С		
C2LS	3.94	5.84	5.21		
C3LS	3.94	5.97	11.94		





ELECTRICAL AND ENVIRONMENTAL CHARACTERISTICS / DATA

Full Power dissipation at 70°C and linearly derated to zero at 275°C - (C3LS) & 155°C - (C2LS) (Refer Derating curve above)
+100/ (V)++50/ (I)++30/(H)++30/(C)++10/(F)
$\pm 10\%$ (K); $\pm 5\%$ (J); $\pm 3\%$ (H); $\pm 2\%$ (G); $\pm 1\%$ (F)
-55°C to +155°C (C2LS) and -55°C to +275°C (C3LS) with suitable derating as per derating curve shown above.
$V=\sqrt{PxR}$
$\Delta R \pm (0.2\% + R0005)$ - No flashover or mechanical damage
>1000MΩ (min)
$\Delta R \pm (0.2\% + R0005)$ - Average
± 60 to 400 ppm/°C (Depending on resistance value)
$\Delta R \pm (0.2\% + R0005)$ - Average
Refer temperature rise curve shown above
$\Delta R \pm (0.5\% + R0005)$ - Average
$\Delta R \pm (0.5\% + R0005) - Typical$
$\Delta R \pm (1.0\% + R0005)$ - Average
No effect on case filling / marking

Rev Date: 08/02/2025



MECHANICAL SPECIFICATIONS

PARAMETER/PERFORMANCE TEST & TEST METHOD	PERFORMANCE REQUIREMENTS		
Resistance to Soldering Heat (260°C - 270°C for 4 secs)	$\Delta R \pm (0.5\% + R0005)$ - Typical		
Solderability (MIL STD 202F - Test method 208F)	Must meet the requirements laid down (95% satisfactory coverage)		

SURFACE MOUNT RESISTORS CERAMIC ENCASED TYPE-

Note:

The ceramic cases used may be steatite ceramic or corderite ceramic or high alumina ceramic. Hence, the ceramic cases may be off-white or variations of brown and variations of grey; colours which are inherent to these ceramic materials.

ORDERING INFORMATION

Series	HTR Type	Packing	Resistance Value	Tolerance
HCALS	C2LS / C2LS*	Bulk C2LS / C2LS*	R005	J
		Tape & Reel C2LSTR / C2LS*TR		

- 1. For Tape & Reel C2LS TR
- 2. For RoHS version C2LS *
- 3. Add 100% to typical weight per pc given to ascertain gross weight of consignment.