

### High-Current Four-Terminal Current Sense Resistors Offer High Accuracy

[Stackpole Electronics'](#) HCSK series of four-terminal current sense resistors is available in sizes from 1216, 2725 and 4026, in power ratings from 2 W to 5 W and resistance values from 0.5 to 5 mΩ. With a TCR of 50 ppm combined with the four-terminal connection, the HCSK provides sensing output with very low temperature measurement error (see the figure and the table).

In addition, the company has expanded its CSSK series of four-terminal current sense resistors. It is now available in the 3637 size in addition to the 0612 size previously offered. With power ratings of 3 W and 1 W respectively, and resistance values from 0.5 to 5 mΩ, the CSSK is also well suited for precision current sensing.

Applications for the HCSK and CSSK include power modules, frequency converters, home appliances, solid state power supplies, hybrid power control and automotive power and control.

Pricing will vary depending on size and ranges from \$0.25 to \$0.50 each in full reel quantities. Contact Stackpole or one of its franchised distributors for volume pricing. For more information, contact the company by phone at 919-850-9500 or [email](#), or visit the [website](#).

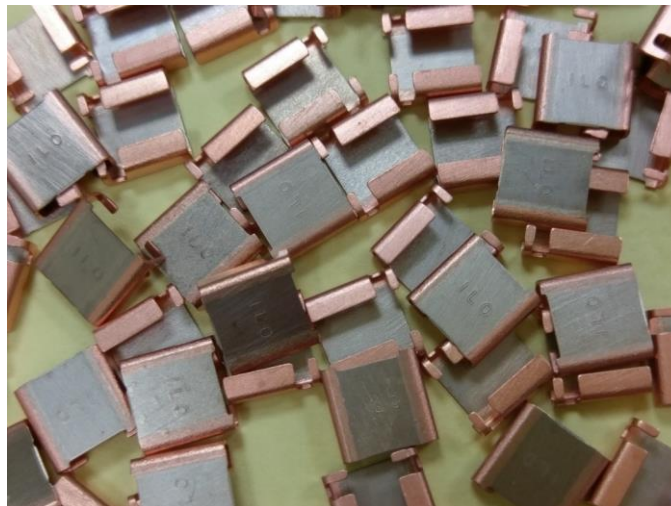


Figure. With a TCR of 50 ppm combined with the four-terminal connection, the HCSK current sense resistors provide sensing output with very low temperature measurement error.

Table. Key electrical specs for the HCSK series.

Electrical Specifications			
Type / Code	Power Rating (W)	TCR (ppm/°C)	Ohmic Range (Ω) and Tolerance
HCSK1216	5	± 50	1% and 5%
	3		0.0005
HCSK2725	5	± 50	0.001
	3		0.0005 - 0.002
	2		0.003
HCSK4026	5	± 50	0.004, 0.005
	4		0.0002, 0.0005
	3		0.0007
			0.001
			0.003