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High Performance Surface Mount RF Inductors Featured at IMS

Gowanda Introduces Six Series with 2X or More Improvement in SRF and Current Rating

Gowanda, N.Y. (USA) - Gowanda Electronics, a designer and manufacturer of precision electronic components for broadband radio frequency and power applications, announces the introduction of several High Performance RF Surface Mount Inductor Series. Recent advancements in the company’s design technology and manufacturing capability deliver significant improvement – nearly 2x or more – in SRF and Current Ratings for these new inductors as compared to traditional molded designs with equivalent inductance. The first six series – CC4H1008, CF4H1008, CC4H1210, CF4H1210, CC4H1812 and CF4H1812 – will be featured at the 2018 International Microwave Symposium (IMS2018) being held in Philadelphia, Pennsylvania from June 12 to 14. Visit Gowanda’s booth #1735 for more information.

These series were developed to address market needs and industry trends calling for ever-increasing performance from RF SMT inductor components. These CC4H (ceramic core) and CF4H (ferrite core) series were designed for use in radio frequency applications in commercial, medical and military markets. That includes use in communication, guidance, security, radar, and test & measurement applications.

The performance ranges provided by these six new wirewound series include inductance from 0.0082 μ H to 1000 μ H, Q min from 30 to 75, SRF MHz min from 2 to 4000, DCR ohms max from 0.060 to 30 and current rating mA DC from 96 to 2430. Series-specific data ranges are provided in the table below. Operating temperature range is -55°C to +125°C for all series. More technical information is available on each series at the company’s website.

Go to <http://www.gowanda.com/standard-products.html#rf-surface-mount> to navigate to each series page where series data, mechanical features, performance graphs, datasheets and other information is provided.

Performance Range of New High Performance RF SMT Inductors

Gowanda Series	L μ H	Q min	SRF MHz min	DCR ohms max	Current Rating mA DC max
Ceramic Core:					
CC4H1008	0.0082 - 0.100	50 - 75	1100 - 3200	0.09 - 0.21	1100 - 1840
CC4H1210	0.010 - 0.082	40 - 45	1000 - 4000	0.08 - 0.15	1300 - 2000
CC4H1812	0.010 - 0.100	40 - 55	1000 - 3700	0.06 - 0.135	1560 - 2430
Ferrite Core:					
CF4H1008	0.12 - 100	30 - 45	9.6 - 900	0.15 - 16.0	125 - 1420
CF4H1210	0.10 - 100	35 - 50	19 - 1100	0.07 - 9.50	160 - 2170
CF4H1812	0.12 - 1000	35 - 60	2 - 900	0.06 - 30	96 - 2430

For information regarding pricing, delivery, application-specific designs, higher reliability or upscreening to MIL-PRF-83446 or MIL-STD-981 requirements, please contact Gowanda Electronics at USA +1-716-532-2234 or sales@gowanda.com.