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Higher Rating Achieved on RF Inductors for Military Market Established Reliability (ER) Inductors Receive Approval to Level R for MIL-PRF-39010

Gowanda, NY (USA) - Gowanda Electronics, a designer and manufacturer of precision electronic components for radio frequency and power applications, announced achievement of failure rate Level R on two more of its MIL-PRF-39010 RF Inductor Series – ER15M and ER18M – adding to the company’s series already approved to Level R – ER10M and ER17S. These four thru-hole series meet the military’s Qualified Product List (QPL) requirements for Established Reliability (ER) and address ten different MIL-PRF-39010 slash numbers (/01 through /10). This approval required extensive testing for electrical, environmental, mechanical and thermal performance. Level R represents the most reliable off-the-shelf inductors for high-reliability applications.

Gowanda’s “ER” series are designed for RF applications in military, aerospace and space – including defense and NASA communities. This includes use in communication, guidance and security applications, as well as in radar, test & evaluation, and special mission applications.

These four ER series were initially introduced with Level M approval. As part of the company’s commitment to the military market, Gowanda pursued the testing required to attain higher level approvals – first achieving Level P – and now Level R – on all four series. **Level R represents a 100X increase in reliability over the initial Level M rating.** Gowanda’s four series have cumulatively exceeded 45 million unit hours of testing.

The overall performance range provided by the four series includes inductance from 0.10 to 1000 uH, Q min from 25 to 75, SRF MHz min from 3.4 to 680, DCR Ohms max from 0.025 to 72, and current rating mA DC from 28 to 2900. Refer to the table for series-specific values. Links to datasheets and series info appear below the table.

Performance Ranges for Gowanda’s MIL-PRF-39010 Level R Series

Gowanda Series	Military Slash Numbers	L μ H	Q Min	SRF MHz Min	DCR Ohms Max	Current Rating mA DC
ER17S	M39010/1	0.10 - 0.82	40 - 50	180 - 250	0.025 - 0.590	370 - 1790
	M39010/2	0.91 - 12	44 - 50	44 - 140	0.07 - 2.00	200 - 1070
	M39010/3	15 - 1000	45 - 60	3.8 - 49	0.80 - 17.5	70 - 315
ER18M	M39010/4	0.15 - 2.70	30 - 55	120 - 510	0.03 - 1.20	460 - 2900
	M39010/5	3 - 27	30 - 65	22 - 70	0.14 - 2.75	205 - 945
ER15M	M39010/6	0.15 - 4.70	33 - 50	90 - 525	0.03 - 2.6	260 - 2450
	M39010/7	5.1 - 240	45 - 75	5.9 - 60	0.32 - 7.8	101 - 495
ER10M	M39010/8	0.1 - 1.0	25 - 40	230 - 680	0.08 - 1.0	385 - 1350
	M39010/9	1.1 - 27	25 - 55	20 - 150	0.18 - 3.7	135 - 590
	M39010/10	30 - 1000	30 - 50	3.4 - 24	3.4 - 72	28 - 130

continued . . .



The MIL-PRF-39010 slash number also determines the core type (phenolic, powdered iron or ferrite), shielding (iron sleeve or ferrite sleeve), and operating temperature range (-55°C to +105°C or -55°C to +125°C).

Helpful Links:

Series Information:

- ER10M Information: <http://www.gowanda.com/index.php/catalog/qpl/er10m-detail.html>
- ER15M Information: <http://www.gowanda.com/index.php/catalog/qpl/er15m-detail.html>
- ER18M Information: <http://www.gowanda.com/index.php/catalog/qpl/er18m-detail.html>
- ER17S Information: <http://www.gowanda.com/index.php/catalog/qpl/er17s-detail.html>

Series Datasheets:

- ER10M Datasheet: http://www.gowanda.com/images/files/Gowanda_ER10M_Datasheet_09212015.pdf
- ER15M Datasheet: http://www.gowanda.com/images/files/Gowanda_ER15M_Datasheet_10032015.pdf
- ER18M Datasheet: http://www.gowanda.com/images/files/Gowanda_ER18M_Datasheet_10032015.pdf
- ER17S Datasheet: http://www.gowanda.com/images/files/Gowanda_ER17S_Datasheet_09212015.pdf

QPL RF Thru-Hole Product Line: <http://www.gowanda.com/index.php/qpl-products.html#rf-thru-hole>

Note: if any of the datasheet links do not work correctly (due to updating of pdf files) please use the series information website links above to navigate to the most current version of the datasheets.

For more information regarding pricing, delivery, higher reliability or upsampling requirements please contact Gowanda Electronics at USA +1-716-532-2234 or sales@gowanda.com.

For more information about QPL go to the website for Defense Logistics Agency DLA Land and Maritime (previously referred to as DSCC) at <http://www.landandmaritime.dla.mil/>. For details on MIL-PRF-39010 go directly to: <http://www.landandmaritime.dla.mil/downloads/milspec/docs/mil-prf-39010/prf39010.pdf>.

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