Higher Rating Achieved on RF Inductors for Military Market

Gowanda Electronics announced that the company recently achieved failure rate Level P for its MIL-PRF-39010 RF Inductors – ER10M Series and ER17S Series. These thru-hole series meet the military's Qualified Product List (QPL) requirements for Established Reliability (ER). Such approval requires extensive life testing of electrical, environmental, mechanical and thermal performance.

The company's ER10M and ER17S Series were introduced in the fall of 2010 with Level M approval and represented Gowanda's first ER products for the military market. As a result of a commitment to do the required testing to achieve higher level approvals, Gowanda's ER10M and ER17S inductors now meet the relevant MIL-PRF-39010 specifications to failure rate Level P. The company is continuing to do life testing at its in-house environmental testing lab with a goal of attaining the more demanding failure rate – Level R.

ER10M is a wirewound, molded design approved for MIL-PRF-39010 slash 08, 09 and 10. Performance includes: Inductance from 0.10 uH to 1000 uH; Q Min from 25 to 55; SRF MHz Min from 3.4 to 680; DCR Ohms Max from 0.08 to 72 and Current Rating DC mA from 28 to 1350. Operating Temperature is -55°C to 125°C for /08 and -55°C to 105°C for /09 and /10. (See link to technical details on next page)

ER17S is a wirewound, molded, shielded design approved for MIL-PRF-39010 slash 01, 02 and 03. Performance includes: Inductance from 0.10 uH to 1000 uH; Q Min from 40 to 60; SRF MHz Min from 3.8 to 250; DCR Ohms Max from 0.025 to 17.5 and Current Rating DC mA from 70 to 1790. Operating Temperature is -55°C to 105°C. (See link to technical details on next page)

These new series represent the most reliable off-the-shelf inductors offered in the industry for high-reliability applications. They also demonstrate Gowanda's ongoing commitment to the development and introduction of QPL products which address the needs of the military and aerospace markets.

Gowanda's ER10M and ER17S series are designed for RF applications in military, aerospace and defense communities. This includes use in communication, guidance and security applications, as well as in radar, test & evaluation, and special mission applications.

www.gowanda.com [1]

Posted by Janine E. Mooney, Editor

November 4, 2011

Source URL (retrieved on *12/12/2013 - 5:01am*):
http://www.ecnmag.com/products/2011/11/higher-rating-achieved-rf-inductors-military-market

Links:
[1] http://www.gowanda.com