

MIL-PRF-83446

- first with 0603/0805

MIL-PRF-27

- first with Level T

MIL-PRF-39010

- now with Level R & two ER SMT series

MIL-PRF-15305

- now 18 MS approvals

CUSTOM DESIGNS

- per MIL-STD-981

IN-HOUSE TEST LAB

- testing & upscreening



ISO 9001:2015
CERTIFIED



ISO 13485:2016
CERTIFIED



AS9100
REV D
WITH ISO 9001:2015

HIGH RELIABILITY, QUALIFIED PRODUCT LIST INDUCTORS

for Demanding Applications

Gowanda is a leader in the design and production of robust inductors for the military/aerospace, space and defense industries. The company's success is derived from decades of magnetics expertise, focused attention on the technical requirements of such demanding applications and collaborative relationships with customers' design engineering teams. Numerous inductor series have achieved Qualified Product List (QPL) status as a result of Gowanda's commitment to the process controls, testing and investment required. Gowanda's in-house environmental test lab exemplifies this commitment. The company was the first in the industry to introduce Established Reliability (ER) inductors with Surface Mount configurations for MIL-PRF-39010.

Featuring:

- Operating temperatures from -55°C to +125°C; up to +220°C available upon request
- Environmental testing including thermal shock, thermal cycling, life test, mechanical shock, vibration and radiographic
- Lot & date code traceability
- Multiple Class 100,000 cleanrooms; easily upgraded to Class 10,000
- No design obsolescence
- Application-specific designs that will meet your stringent electrical and mechanical requirements
- Micro/Ultra-miniature components for hybrid applications
- Molded components have lead (Pb) bearing terminations standard; select series offer gold terminations standard and Pb solder as an option
- Ruggedization of components designed specifically to withstand the rigors of the military, space and aerospace markets
















Power Surface Mount

SERIES	MILITARY NUMBER	L μH	DCR Ω	CURRENT RATING mA DC
M27 Level-M & Level-T Molded Unshielded Inductor				
MLP1812	M27/368	1.0 - 330	0.113 - 15.24	90 - 1050
MLP5025	M27/367	0.22 - 22000	0.008 - 160	50 - 7000
MLP8527	M27/370	1.0 - 18000	0.009 - 40	90 - 6270








Power Thru-Hole

SERIES	MILITARY NUMBER	L μH	DCR Ω	CURRENT RATING mA DC
M27 Molded High Current Inductor				
MLP22	M27/371	0.22 - 22000	0.008 - 160	50 - 7000
MLP24	M27/369	1.0 - 18000	0.009 - 40	90 - 6270

RF Thru-Hole

SERIES		MILITARY NUMBER	L μH	DCR Ω	CURRENT RATING mA DC
M15305 Molded Unshielded Inductor					
MLRF10M		MS75083 MS75084 MS75085	0.10 - 1000	0.080 - 72	28 - 1350
MLRF15M		MS18130 MS14046 MS90538	0.150 - 240	0.030 - 7.80	101 - 2450
MLRF18M		MS75008 MS75101	0.150 - 27	0.030 - 2.75	205 - 3000
MLRF19M		MS90539	270 - 1000	8.2 - 16.5	78 - 110
MLRF21M		MS90542 MS14052	0.47 - 39	0.060 - 2.0	224 - 1970
MLRF22M		MS90540	1100 - 3600	21 - 40	57 - 78
MLRF24M		MS90541	3900 - 10000	44 - 72	47 - 61
MLRF28M		MS75103 MS91189	1.2 - 120	0.075 - 4.15	195 - 2400
M15305 Molded Shielded Inductor					
MLRF17S		MS75087 MS75088 MS75089	0.10 - 1000	0.025 - 17.5	70 - 1790
M39010 Level-R-Moled Unshielded Established Reliability Inductor					
ER10M		M39010/08 M39010/09 M39010/10	0.10 - 1000	0.080 - 72	28 - 1350
ER15M		M39010/06 M39010/07	0.150 - 240	0.030 - 7.80	101 - 2450
ER18M		M39010/04 M39010/05	0.150 - 27	0.030 - 2.75	205 - 2900
M39010 Level-R Molded Shielded Established Reliability Inductor					
ER17S		M39010/01 M39010/02 M39010/03	0.10 - 1000	0.025 - 17.50	70 - 1790

RF Surface Mount

SERIES		MILITARY NUMBER	L μH	DCR Ω	CURRENT RATING mA DC
M83446 Ceramic Chip Inductor					
MLRF0603		M83446/36	0.0018 - 0.270	0.070 - 1.78	195 - 1000
MLRF0805		M83446/37	0.0022 - 2.2	0.080 - 5.0	140 - 1000
M39010 Level-M Molded Unshielded Established Reliability Inductor					
ER3013		M39010/19 M39010/20 M39010/21	0.010 - 1000	0.080 - 72	28 - 1380
M39010 Level-M Molded Shielded Established Reliability Inductor					
ER5025S		M39010/17 M39010/18	0.10 - 10000	0.025 - 139	30 - 2245
M83446 Epoxy Coated Chip Inductor					
MLRF1010		M83446/4	0.010 - 27	0.060 - 6.90	120 - 1270
M83446 Molded Unshielded Inductor					
MLRF1812		M83446/39	0.010 - 1000	0.10 - 60	55 - 1230
MLRF3013		M39010/31 M39010/32 M39010/33	0.010 - 1000	0.080 - 72	28 - 1380



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