

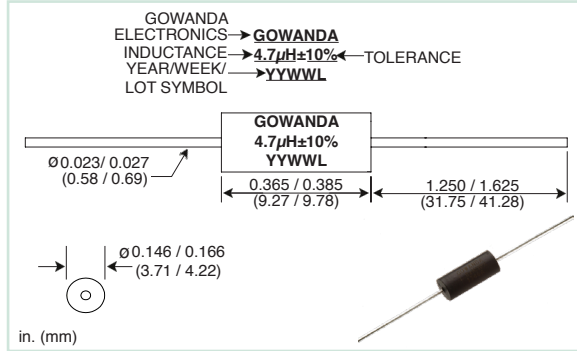
## MLRF15M



### M15305 Molded Unshielded Coil Inductor

#### Military Specifications:

MS18130, MS14046, MS90538



#### NOTES:

- Operating Temperature Range:**  
Phenolic: -55°C to +125°C  
Iron & Ferrite: -55°C to +105°C
- Temperature Class:**  
Phenolic: Class B (125°C)  
Iron & Ferrite: Class A (105°C)
- Current Rating at a 90°C Ambient:**  
Phenolic: 35°C Rise  
Iron & Ferrite: 15°C Rise
- DWV**  
Phenolic & Ferrite: 1000 Vrms @ Sea Level  
Iron: 700 Vrms @ Sea Level  
Phenolic & Ferrite: 200 Vrms @70,000 Feet  
Iron: 180 Vrms @ 70,000 Feet
- Weight:** 0.301 grams
- Marking:** Laser Mark (see diagram above)
- Body color is black
- SRF values are calculated and for reference only
- When ordering, specify **tolerance:**  
MLRF15M150M  
**Tolerance:** M = 20%, K = 10%, J = 5%  
(Table shows lowest standard tolerance option)
- When ordering by military part number, specify **Military Spec, Dash No.:**

MS18130-1

Example of ordering by Military Part Number:

MLRF15M150M → MS18130-1

#### TAPE AND REEL SPECS:

|                      |           |
|----------------------|-----------|
| Pcs./Reel maximum:   | 2500      |
| Pitch between parts: | 0.200 in. |
| Tape width:          | 2.062 in. |
| Reel diameter:       | 12 in.    |
| Class:               | 1         |

| PART NUMBER                       | MIL DASH No. | L $\mu$ H | Q MIN | TEST FREQ MHz | SRF MHz MIN | DCR $\Omega$ MAX | CURRENT RATING mA DC |
|-----------------------------------|--------------|-----------|-------|---------------|-------------|------------------|----------------------|
| <b>MS18130 PHENOLIC CORE</b>      |              |           |       |               |             |                  |                      |
| MLRF15M150M                       | 1            | 0.15      | 50    | 25            | 525         | 0.030            | 2450                 |
| MLRF15M220M                       | 2            | 0.22      | 50    | 25            | 450         | 0.055            | 1810                 |
| MLRF15M330M                       | 3            | 0.33      | 45    | 25            | 360         | 0.090            | 1400                 |
| MLRF15M470M                       | 4            | 0.47      | 45    | 25            | 310         | 0.120            | 1225                 |
| MLRF15M560K                       | 5            | 0.56      | 50    | 25            | 280         | 0.135            | 1150                 |
| MLRF15M680K                       | 6            | 0.68      | 50    | 25            | 250         | 0.150            | 1100                 |
| MLRF15M820K                       | 7            | 0.82      | 50    | 25            | 220         | 0.220            | 900                  |
| MLRF15M101K                       | 8            | 1.0       | 50    | 25            | 200         | 0.290            | 785                  |
| MLRF15M121K                       | 9            | 1.2       | 33    | 7.9           | 180         | 0.420            | 650                  |
| MLRF15M151K                       | 10           | 1.5       | 33    | 7.9           | 160         | 0.500            | 600                  |
| MLRF15M181K                       | 11           | 1.8       | 33    | 7.9           | 150         | 0.650            | 525                  |
| MLRF15M221K                       | 12           | 2.2       | 33    | 7.9           | 135         | 0.950            | 435                  |
| MLRF15M271K                       | 13           | 2.7       | 33    | 7.9           | 120         | 1.2              | 385                  |
| MLRF15M331K                       | 14           | 3.3       | 33    | 7.9           | 110         | 2.0              | 300                  |
| MLRF15M391K                       | 15           | 3.9       | 33    | 7.9           | 100         | 2.3              | 280                  |
| MLRF15M471K                       | 16           | 4.7       | 33    | 7.9           | 90          | 2.6              | 260                  |
| <b>MS14046 POWDERED IRON CORE</b> |              |           |       |               |             |                  |                      |
| MLRF15M561K                       | 1            | 5.6       | 45    | 7.9           | 60          | 0.320            | 495                  |
| MLRF15M681K                       | 2            | 6.8       | 50    | 7.9           | 55          | 0.500            | 395                  |
| MLRF15M821K                       | 3            | 8.2       | 50    | 7.9           | 50          | 0.600            | 360                  |
| MLRF15M102K                       | 4            | 10        | 55    | 7.9           | 45          | 0.900            | 290                  |
| MLRF15M122K                       | 5            | 12        | 65    | 2.5           | 42          | 1.10             | 265                  |
| MLRF15M152K                       | 6            | 15        | 65    | 2.5           | 40          | 1.40             | 240                  |
| MLRF15M182K                       | 7            | 18        | 75    | 2.5           | 34          | 2.25             | 185                  |
| MLRF15M222K                       | 8            | 22        | 75    | 2.5           | 30          | 2.50             | 175                  |
| MLRF15M272K                       | 9            | 27        | 60    | 2.5           | 25          | 2.60             | 170                  |
| MLRF15M332K                       | 10           | 33        | 65    | 2.5           | 19          | 3.00             | 165                  |
| <b>MS90538 POWDERED IRON CORE</b> |              |           |       |               |             |                  |                      |
| MLRF15M362J                       | 01           | 36        | 60    | 2.5           | 15.5        | 2.50             | 180                  |
| MLRF15M392J                       | 02           | 39        | 60    | 2.5           | 14.5        | 2.60             | 176                  |
| MLRF15M432J                       | 03           | 43        | 60    | 2.5           | 13.7        | 2.70             | 172                  |
| MLRF15M472J                       | 04           | 47        | 55    | 2.5           | 13.0        | 2.75             | 170                  |
| MLRF15M512J                       | 05           | 51        | 55    | 2.5           | 12.7        | 2.85             | 167                  |
| MLRF15M562J                       | 06           | 56        | 55    | 2.5           | 12.0        | 3.00             | 164                  |
| MLRF15M622J                       | 07           | 62        | 55    | 2.5           | 11.5        | 3.15             | 160                  |
| MLRF15M682J                       | 08           | 68        | 55    | 2.5           | 11.0        | 3.30             | 156                  |
| MLRF15M752J                       | 09           | 75        | 55    | 2.5           | 10.5        | 3.70             | 147                  |
| MLRF15M822J                       | 10           | 82        | 50    | 2.5           | 10.3        | 3.90             | 143                  |
| MLRF15M912J                       | 11           | 91        | 50    | 2.5           | 10.0        | 4.30             | 136                  |
| MLRF15M103J                       | 12           | 100       | 50    | 2.5           | 9.5         | 4.50             | 133                  |
| MLRF15M113J                       | 13           | 110       | 60    | 0.79          | 8.9         | 4.90             | 128                  |
| MLRF15M123J                       | 14           | 120       | 65    | 0.79          | 8.7         | 5.20             | 124                  |
| MLRF15M133J                       | 15           | 130       | 65    | 0.79          | 8.5         | 5.45             | 121                  |
| MLRF15M153J                       | 16           | 150       | 65    | 0.79          | 8.0         | 6.05             | 114                  |
| MLRF15M163J                       | 17           | 160       | 65    | 0.79          | 7.5         | 6.40             | 111                  |
| MLRF15M183J                       | 18           | 180       | 65    | 0.79          | 7.0         | 6.75             | 108                  |
| MLRF15M203J                       | 19           | 200       | 65    | 0.79          | 6.5         | 7.10             | 106                  |
| MLRF15M223J                       | 20           | 220       | 65    | 0.79          | 6.2         | 7.45             | 103                  |
| MLRF15M243J                       | 21           | 240       | 65    | 0.79          | 5.9         | 7.80             | 101                  |