

## ER17S Established Reliability

Wirewound, Shielded, Molded, Level R Qualified, MIL-PRF-39010

M39010 /01 Phenolic Core /02 Powdered Iron Core /03 Ferrite Core



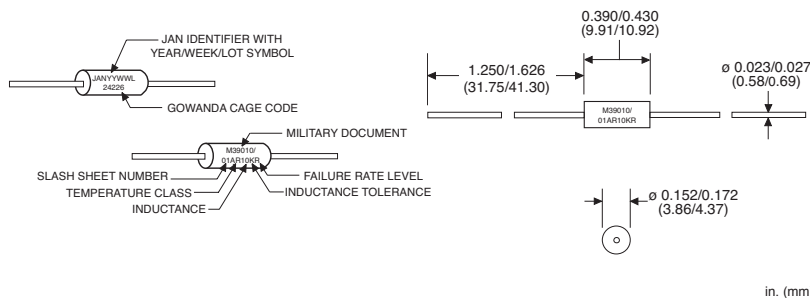
| PART NUMBER                                  | MIL PART NUMBER | L $\mu$ H | Q MIN | TEST FREQ MHz | SRF MHz MIN | DCR OHMS MAX | CURRENT RATING mA DC | INDUCTANCE TOLERANCE |
|----------------------------------------------|-----------------|-----------|-------|---------------|-------------|--------------|----------------------|----------------------|
| MIL-PRF-39010/01 PHENOLIC CORE & IRON SLEEVE |                 |           |       |               |             |              |                      |                      |
| ER17S100*^                                   | M39010/01AR10*^ | 0.10      | 50    | 25            | 250         | 0.025        | 1790                 | 5, 10                |
| ER17S110J^                                   | M39010/01AR11J^ | 0.11      | 50    | 25            | 250         | 0.034        | 1530                 | 5                    |
| ER17S120*^                                   | M39010/01AR12*^ | 0.12      | 50    | 25            | 250         | 0.034        | 1530                 | 5, 10                |
| ER17S130J^                                   | M39010/01AR13J^ | 0.13      | 50    | 25            | 250         | 0.037        | 1470                 | 5                    |
| ER17S150*^                                   | M39010/01AR15*^ | 0.15      | 50    | 25            | 250         | 0.037        | 1470                 | 5, 10                |
| ER17S160J^                                   | M39010/01AR16J^ | 0.16      | 50    | 25            | 250         | 0.047        | 1300                 | 5                    |
| ER17S180*^                                   | M39010/01AR18*^ | 0.18      | 50    | 25            | 250         | 0.047        | 1300                 | 5, 10                |
| ER17S200J^                                   | M39010/01AR20J^ | 0.20      | 49    | 25            | 250         | 0.067        | 1100                 | 5                    |
| ER17S220*^                                   | M39010/01AR22*^ | 0.22      | 49    | 25            | 250         | 0.067        | 1100                 | 5, 10                |
| ER17S240J^                                   | M39010/01AR24J^ | 0.24      | 47    | 25            | 250         | 0.110        | 853                  | 5                    |
| ER17S270*^                                   | M39010/01AR27*^ | 0.27      | 47    | 25            | 250         | 0.110        | 853                  | 5, 10                |
| ER17S300J^                                   | M39010/01AR30J^ | 0.30      | 46    | 25            | 250         | 0.130        | 780                  | 5                    |
| ER17S330*^                                   | M39010/01AR33*^ | 0.33      | 46    | 25            | 250         | 0.130        | 780                  | 5, 10                |
| ER17S360J^                                   | M39010/01AR36J^ | 0.36      | 44    | 25            | 250         | 0.180        | 670                  | 5                    |
| ER17S390*^                                   | M39010/01AR39*^ | 0.39      | 44    | 25            | 250         | 0.180        | 670                  | 5, 10                |
| ER17S430J^                                   | M39010/01AR43J^ | 0.43      | 44    | 25            | 235         | 0.250        | 565                  | 5                    |
| ER17S470*^                                   | M39010/01AR47*^ | 0.47      | 44    | 25            | 235         | 0.250        | 565                  | 5, 10                |
| ER17S510J^                                   | M39010/01AR51J^ | 0.51      | 43    | 25            | 210         | 0.330        | 490                  | 5                    |
| ER17S560*^                                   | M39010/01AR56*^ | 0.56      | 43    | 25            | 210         | 0.330        | 490                  | 5, 10                |
| ER17S620J^                                   | M39010/01AR62J^ | 0.62      | 42    | 25            | 190         | 0.450        | 420                  | 5                    |
| ER17S680*^                                   | M39010/01AR68*^ | 0.68      | 42    | 25            | 190         | 0.450        | 420                  | 5, 10                |
| ER17S750J^                                   | M39010/01AR75J^ | 0.75      | 40    | 25            | 180         | 0.590        | 370                  | 5                    |
| ER17S820*^                                   | M39010/01AR82*^ | 0.82      | 40    | 25            | 180         | 0.590        | 370                  | 5, 10                |

\* Substitute "J" for 5% tolerance or "K" for 10% tolerance

continued next page

^ Substitute R, P, or M for failure rate level

### 2 SIDED LASER MARKING



### NOTES:

- Operating Temperature Range:  
-55°C to +105°C
- Current Rating is based on a 15°C temperature rise at an ambient temperature of 90°C
- Temperature Class  
Class A (105°C)
- DWV 1000 Vrms @ Sea Level  
200 Vrms @ 70,000 Feet
- Weight maximum  
0.85 grams (0.03 ounces) for /01 (Phenolic)  
1.13 grams (0.04 ounces) for /02 & /03 (Powdered Iron & Ferrite)
- Magnetic Shielding: 3% Max. Coupling
- Body color is Black
- This series is qualified to Level R but it is also available for Level M and Level P applications. See ^ note below table.

### TAPE AND REEL SPECS:

|                      |           |
|----------------------|-----------|
| Pcs./Reel maximum:   | 2500      |
| Pitch between parts: | 0.200 in. |
| Inside tape spacing: | 2.062 in. |
| Class:               | 1         |

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**Wirewound, Shielded, Molded, Level R Qualified, MIL-PRF-39010**  
**M39010 /01 Phenolic Core /02 Powdered Iron Core /03 Ferrite Core**



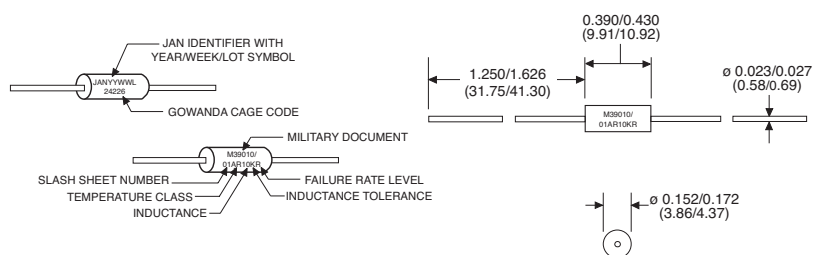
| PART NUMBER                                       | MIL PART NUMBER             | L $\mu$ H | Q MIN | TEST FREQ MHz | SRF MHz MIN | DCR OHMS MAX | CURRENT RATING mA DC | INDUCTANCE TOLERANCE |
|---------------------------------------------------|-----------------------------|-----------|-------|---------------|-------------|--------------|----------------------|----------------------|
| MIL-PRF-39010/02 POWDERED IRON CORE & IRON SLEEVE |                             |           |       |               |             |              |                      |                      |
| ER17S910J <sup>^</sup>                            | M39010/02AR91J <sup>^</sup> | 0.91      | 44    | 25            | 140         | 0.070        | 1070                 | 5                    |
| ER17S101 <sup>^</sup>                             | M39010/02A1R0 <sup>^</sup>  | 1.0       | 44    | 25            | 140         | 0.070        | 1070                 | 5, 10                |
| ER17S111J <sup>^</sup>                            | M39010/02A1R1J <sup>^</sup> | 1.1       | 44    | 7.9           | 130         | 0.100        | 895                  | 5                    |
| ER17S121 <sup>^</sup>                             | M39010/02A1R2 <sup>^</sup>  | 1.2       | 44    | 7.9           | 130         | 0.100        | 895                  | 5, 10                |
| ER17S131J <sup>^</sup>                            | M39010/02A1R3J <sup>^</sup> | 1.3       | 44    | 7.9           | 115         | 0.120        | 815                  | 5                    |
| ER17S151 <sup>^</sup>                             | M39010/02A1R5 <sup>^</sup>  | 1.5       | 44    | 7.9           | 115         | 0.120        | 815                  | 5, 10                |
| ER17S161J <sup>^</sup>                            | M39010/02A1R6J <sup>^</sup> | 1.6       | 44    | 7.9           | 105         | 0.140        | 755                  | 5                    |
| ER17S181 <sup>^</sup>                             | M39010/02A1R8 <sup>^</sup>  | 1.8       | 44    | 7.9           | 105         | 0.140        | 755                  | 5, 10                |
| ER17S201J <sup>^</sup>                            | M39010/02A2R0J <sup>^</sup> | 2.0       | 44    | 7.9           | 100         | 0.190        | 650                  | 5                    |
| ER17S221 <sup>^</sup>                             | M39010/02A2R2 <sup>^</sup>  | 2.2       | 44    | 7.9           | 100         | 0.190        | 650                  | 5, 10                |
| ER17S241J <sup>^</sup>                            | M39010/02A2R4J <sup>^</sup> | 2.4       | 44    | 7.9           | 92          | 0.280        | 535                  | 5                    |
| ER17S271 <sup>^</sup>                             | M39010/02A2R7 <sup>^</sup>  | 2.7       | 44    | 7.9           | 92          | 0.280        | 535                  | 5, 10                |
| ER17S301J <sup>^</sup>                            | M39010/02A3R0J <sup>^</sup> | 3.0       | 44    | 7.9           | 85          | 0.350        | 480                  | 5                    |
| ER17S331 <sup>^</sup>                             | M39010/02A3R3 <sup>^</sup>  | 3.3       | 44    | 7.9           | 85          | 0.350        | 480                  | 5, 10                |
| ER17S361J <sup>^</sup>                            | M39010/02A3R6J <sup>^</sup> | 3.6       | 44    | 7.9           | 75          | 0.400        | 450                  | 5                    |
| ER17S391 <sup>^</sup>                             | M39010/02A3R9 <sup>^</sup>  | 3.9       | 44    | 7.9           | 75          | 0.400        | 450                  | 5, 10                |
| ER17S431J <sup>^</sup>                            | M39010/02A4R3J <sup>^</sup> | 4.3       | 44    | 7.9           | 70          | 0.550        | 380                  | 5                    |
| ER17S471 <sup>^</sup>                             | M39010/02A4R7 <sup>^</sup>  | 4.7       | 44    | 7.9           | 70          | 0.550        | 380                  | 5, 10                |
| ER17S511J <sup>^</sup>                            | M39010/02A5R1J <sup>^</sup> | 5.1       | 44    | 7.9           | 65          | 0.720        | 335                  | 5                    |
| ER17S561 <sup>^</sup>                             | M39010/02A5R6 <sup>^</sup>  | 5.6       | 44    | 7.9           | 65          | 0.720        | 335                  | 5, 10                |
| ER17S621J <sup>^</sup>                            | M39010/02A6R2J <sup>^</sup> | 6.2       | 44    | 7.9           | 55          | 1.02         | 280                  | 5                    |
| ER17S681 <sup>^</sup>                             | M39010/02A6R8 <sup>^</sup>  | 6.8       | 50    | 7.9           | 55          | 1.02         | 280                  | 5, 10                |
| ER17S751J <sup>^</sup>                            | M39010/02A7R5J <sup>^</sup> | 7.5       | 50    | 7.9           | 50          | 1.32         | 245                  | 5                    |
| ER17S821 <sup>^</sup>                             | M39010/02A8R2 <sup>^</sup>  | 8.2       | 50    | 7.9           | 50          | 1.32         | 245                  | 5, 10                |
| ER17S911J <sup>^</sup>                            | M39010/02A9R1J <sup>^</sup> | 9.1       | 50    | 7.9           | 46          | 1.62         | 220                  | 5                    |
| ER17S102 <sup>^</sup>                             | M39010/02A100 <sup>^</sup>  | 10        | 50    | 7.9           | 46          | 1.62         | 220                  | 5, 10                |
| ER17S112J <sup>^</sup>                            | M39010/02A110J <sup>^</sup> | 11        | 50    | 2.5           | 44          | 2.00         | 200                  | 5                    |
| ER17S122 <sup>^</sup>                             | M39010/02A120 <sup>^</sup>  | 12        | 50    | 2.5           | 44          | 2.00         | 200                  | 5, 10                |

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<sup>^</sup> Substitute R, P, or M for failure rate level

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## NOTES:

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|------------------------------------------------|-----------------|-----------|-------|---------------|-------------|--------------|----------------------|----------------------|
| MIL-PRF-39010/03 FERRITE CORE & FERRITE SLEEVE |                 |           |       |               |             |              |                      |                      |
| ER17S152*^                                     | M39010/03A150*^ | 15        | 45    | 2.5           | 49          | 0.80         | 315                  | 5, 10                |
| ER17S162J^                                     | M39010/03A160J^ | 16        | 45    | 2.5           | 45          | 0.89         | 300                  | 5                    |
| ER17S182*^                                     | M39010/03A180*^ | 18        | 45    | 2.5           | 45          | 0.89         | 300                  | 5, 10                |
| ER17S202J^                                     | M39010/03A200J^ | 20        | 45    | 2.5           | 41          | 0.96         | 290                  | 5                    |
| ER17S222*^                                     | M39010/03A220*^ | 22        | 45    | 2.5           | 41          | 0.96         | 290                  | 5, 10                |
| ER17S242J^                                     | M39010/03A240J^ | 24        | 45    | 2.5           | 38          | 1.19         | 260                  | 5                    |
| ER17S272*^                                     | M39010/03A270*^ | 27        | 45    | 2.5           | 38          | 1.19         | 260                  | 5, 10                |
| ER17S302J^                                     | M39010/03A300J^ | 30        | 45    | 2.5           | 34          | 1.37         | 240                  | 5                    |
| ER17S332*^                                     | M39010/03A330*^ | 33        | 45    | 2.5           | 34          | 1.37         | 240                  | 5, 10                |
| ER17S362J^                                     | M39010/03A360J^ | 36        | 45    | 2.5           | 29          | 1.93         | 205                  | 5                    |
| ER17S392*^                                     | M39010/03A390*^ | 39        | 50    | 2.5           | 29          | 1.93         | 205                  | 5, 10                |
| ER17S432J^                                     | M39010/03A430J^ | 43        | 50    | 2.5           | 27          | 2.11         | 195                  | 5                    |
| ER17S472*^                                     | M39010/03A470*^ | 47        | 50    | 2.5           | 27          | 2.11         | 195                  | 5, 10                |
| ER17S512J^                                     | M39010/03A510J^ | 51        | 50    | 2.5           | 25          | 2.23         | 190                  | 5                    |
| ER17S562*^                                     | M39010/03A560*^ | 56        | 50    | 2.5           | 25          | 2.23         | 190                  | 5, 10                |
| ER17S622J^                                     | M39010/03A620J^ | 62        | 50    | 2.5           | 21          | 2.44         | 180                  | 5                    |
| ER17S682*^                                     | M39010/03A680*^ | 68        | 50    | 2.5           | 21          | 2.44         | 180                  | 5, 10                |
| ER17S752J^                                     | M39010/03A750J^ | 75        | 50    | 2.5           | 10.5        | 2.70         | 170                  | 5                    |
| ER17S822*^                                     | M39010/03A820*^ | 82        | 50    | 2.5           | 10.5        | 2.70         | 170                  | 5, 10                |
| ER17S912J^                                     | M39010/03A910J^ | 91        | 50    | 2.5           | 10.0        | 3.12         | 160                  | 5                    |
| ER17S103*^                                     | M39010/03A101*^ | 100       | 50    | 2.5           | 10.0        | 3.12         | 160                  | 5, 10                |
| ER17S113J^                                     | M39010/03A111J^ | 110       | 50    | 0.79          | 9.7         | 3.60         | 150                  | 5                    |
| ER17S123*^                                     | M39010/03A121*^ | 120       | 55    | 0.79          | 9.7         | 3.60         | 150                  | 5, 10                |
| ER17S133J^                                     | M39010/03A131J^ | 130       | 55    | 0.79          | 8.5         | 4.10         | 140                  | 5                    |
| ER17S153*^                                     | M39010/03A151*^ | 150       | 55    | 0.79          | 8.5         | 4.10         | 140                  | 5, 10                |
| ER17S163J^                                     | M39010/03A161J^ | 160       | 55    | 0.79          | 8.0         | 4.40         | 135                  | 5                    |
| ER17S183*^                                     | M39010/03A181*^ | 180       | 55    | 0.79          | 8.0         | 4.40         | 135                  | 5, 10                |
| ER17S203J^                                     | M39010/03A201J^ | 200       | 55    | 0.79          | 7.5         | 5.00         | 125                  | 5                    |
| ER17S223*^                                     | M39010/03A221*^ | 220       | 55    | 0.79          | 7.5         | 5.00         | 125                  | 5, 10                |
| ER17S243J^                                     | M39010/03A241J^ | 240       | 55    | 0.79          | 7.0         | 5.80         | 115                  | 5                    |
| ER17S273*^                                     | M39010/03A271*^ | 270       | 55    | 0.79          | 7.0         | 5.80         | 115                  | 5, 10                |
| ER17S303J^                                     | M39010/03A301J^ | 300       | 55    | 0.79          | 6.5         | 6.40         | 110                  | 5                    |
| ER17S333*^                                     | M39010/03A331*^ | 330       | 55    | 0.79          | 6.5         | 6.40         | 110                  | 5, 10                |
| ER17S363J^                                     | M39010/03A361J^ | 360       | 55    | 0.79          | 6.2         | 7.40         | 105                  | 5                    |
| ER17S393*^                                     | M39010/03A391*^ | 390       | 60    | 0.79          | 6.2         | 7.40         | 105                  | 5, 10                |
| ER17S433J^                                     | M39010/03A431J^ | 430       | 60    | 0.79          | 5.7         | 9.50         | 92                   | 5                    |
| ER17S473*^                                     | M39010/03A471*^ | 470       | 60    | 0.79          | 5.7         | 9.50         | 92                   | 5, 10                |
| ER17S513J^                                     | M39010/03A511J^ | 510       | 60    | 0.79          | 4.7         | 10.5         | 90                   | 5                    |
| ER17S563*^                                     | M39010/03A561*^ | 560       | 60    | 0.79          | 4.7         | 10.5         | 90                   | 5, 10                |
| ER17S623J^                                     | M39010/03A621J^ | 620       | 60    | 0.79          | 4.5         | 11.8         | 80                   | 5                    |
| ER17S683*^                                     | M39010/03A681*^ | 680       | 60    | 0.79          | 4.5         | 11.8         | 80                   | 5, 10                |
| ER17S753J^                                     | M39010/03A751J^ | 750       | 60    | 0.79          | 4.2         | 13.0         | 80                   | 5                    |
| ER17S823*^                                     | M39010/03A821*^ | 820       | 60    | 0.79          | 4.2         | 13.0         | 80                   | 5, 10                |
| ER17S913J^                                     | M39010/03A911J^ | 910       | 60    | 0.79          | 3.8         | 17.5         | 70                   | 5                    |
| ER17S104*^                                     | M39010/03A102*^ | 1000      | 60    | 0.79          | 3.8         | 17.5         | 70                   | 5, 10                |

\* Substitute "J" for 5% tolerance or "K" for 10% tolerance

^ Substitute R, P, or M for failure rate level

#### NOTE:

Please refer to prior page(s) for diagram, notes and packaging information