

**ER10M**

*Established Reliability*
**Wirewound, Molded, Level R Qualified, MIL-PRF-39010**
**M39010/08 Phenolic Core /09 Powdered Iron Core /10 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-39010/08 PHENOLIC CORE |                  |           |       |               |             |              |                      |                      |
| ER10M100*^A                    | M39010/08BR10*^A | 0.10      | 40    | 25            | 680         | 0.08         | 1350                 | 5, 10                |
| ER10M110J^A                    | M39010/08BR11J^A | 0.11      | 40    | 25            | 640         | 0.09         | 1270                 | 5                    |
| ER10M120*^A                    | M39010/08BR12*^A | 0.12      | 40    | 25            | 640         | 0.09         | 1270                 | 5, 10                |
| ER10M130J^A                    | M39010/08BR13J^A | 0.13      | 38    | 25            | 600         | 0.10         | 1200                 | 5                    |
| ER10M150*^A                    | M39010/08BR15*^A | 0.15      | 38    | 25            | 600         | 0.10         | 1200                 | 5, 10                |
| ER10M160J^A                    | M39010/08BR16J^A | 0.16      | 35    | 25            | 550         | 0.12         | 1105                 | 5                    |
| ER10M180*^A                    | M39010/08BR18*^A | 0.18      | 35    | 25            | 550         | 0.12         | 1105                 | 5, 10                |
| ER10M200J^A                    | M39010/08BR20J^A | 0.20      | 33    | 25            | 510         | 0.14         | 1025                 | 5                    |
| ER10M220*^A                    | M39010/08BR22*^A | 0.22      | 33    | 25            | 510         | 0.14         | 1025                 | 5, 10                |
| ER10M240J^A                    | M39010/08BR24J^A | 0.24      | 33    | 25            | 430         | 0.16         | 960                  | 5                    |
| ER10M270*^A                    | M39010/08BR27*^A | 0.27      | 33    | 25            | 430         | 0.16         | 960                  | 5, 10                |
| ER10M300J^A                    | M39010/08BR30J^A | 0.30      | 30    | 25            | 410         | 0.22         | 815                  | 5                    |
| ER10M330*^A                    | M39010/08BR33*^A | 0.33      | 30    | 25            | 410         | 0.22         | 815                  | 5, 10                |
| ER10M360J^A                    | M39010/08BR36J^A | 0.36      | 30    | 25            | 365         | 0.30         | 700                  | 5                    |
| ER10M390*^A                    | M39010/08BR39*^A | 0.39      | 30    | 25            | 365         | 0.30         | 700                  | 5, 10                |
| ER10M430J^A                    | M39010/08BR43J^A | 0.43      | 30    | 25            | 330         | 0.35         | 650                  | 5                    |
| ER10M470*^A                    | M39010/08BR47*^A | 0.47      | 30    | 25            | 330         | 0.35         | 650                  | 5, 10                |
| ER10M510J^A                    | M39010/08BR51J^A | 0.51      | 30    | 25            | 300         | 0.50         | 545                  | 5                    |
| ER10M560*^A                    | M39010/08BR56*^A | 0.56      | 30    | 25            | 300         | 0.50         | 545                  | 5, 10                |
| ER10M620J^A                    | M39010/08BR62J^A | 0.62      | 28    | 25            | 275         | 0.60         | 495                  | 5                    |
| ER10M680*^A                    | M39010/08BR68*^A | 0.68      | 28    | 25            | 275         | 0.60         | 495                  | 5, 10                |
| ER10M750J^A                    | M39010/08BR75J^A | 0.75      | 28    | 25            | 250         | 0.85         | 415                  | 5                    |
| ER10M820*^A                    | M39010/08BR82*^A | 0.82      | 28    | 25            | 250         | 0.85         | 415                  | 5, 10                |
| ER10M910J^A                    | M39010/08BR91J^A | 0.91      | 25    | 25            | 230         | 1.0          | 385                  | 5                    |
| ER10M101*^A                    | M39010/08B1R0*^A | 1.0       | 25    | 25            | 230         | 1.0          | 385                  | 5, 10                |

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

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

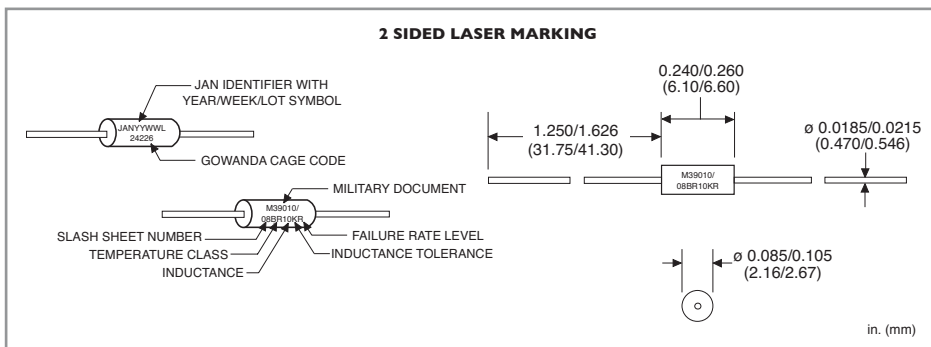
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## NOTES:

- Operating Temperature Range:  
-55°C to +125°C for /08 (Phenolic)  
-55°C to +105°C for /09 & /10  
(Powdered Iron & Ferrite)
- Current Rating @ a 90°C Ambient  
35°C Rise for /08 (Phenolic)  
15°C Rise for /09 & /10 (Powdered Iron & Ferrite)
- Temperature Class:  
Class B (125°C) for /08 (Phenolic)  
Class A (105°C) for /09 & /10  
(Powdered Iron & Ferrite)
- DWV 1000 Vrms @ Sea Level  
300 Vrms @ 70,000 Feet for /08 & /09  
(Phenolic & Powdered Iron)  
200 Vrms @ 70,000 Feet for /10 (Ferrite)
- Weight maximum 0.283 grams (0.01 ounces)
- 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. |
| Reel diameter:       | 12 in.    |
| Class:               | 1         |



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## ER10M



Established Reliability

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

**M39010/08 Phenolic Core /09 Powdered Iron Core /10 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-39010/09 POWERED IRON CORE |                             |           |       |               |             |              |                      |                      |
| ER10M111J <sup>^</sup>             | M39010/09A1R1J <sup>^</sup> | 1.1       | 25    | 7.9           | 150         | 0.18         | 590                  | 5                    |
| ER10M121 <sup>^</sup>              | M39010/09A1R2 <sup>^</sup>  | 1.2       | 25    | 7.9           | 150         | 0.18         | 590                  | 5, 10                |
| ER10M131J <sup>^</sup>             | M39010/09A1R3J <sup>^</sup> | 1.3       | 25    | 7.9           | 140         | 0.22         | 535                  | 5                    |
| ER10M151 <sup>^</sup>              | M39010/09A1R5 <sup>^</sup>  | 1.5       | 28    | 7.9           | 140         | 0.22         | 535                  | 5, 10                |
| ER10M161J <sup>^</sup>             | M39010/09A1R6J <sup>^</sup> | 1.6       | 28    | 7.9           | 125         | 0.30         | 455                  | 5                    |
| ER10M181 <sup>^</sup>              | M39010/09A1R8 <sup>^</sup>  | 1.8       | 30    | 7.9           | 125         | 0.30         | 455                  | 5, 10                |
| ER10M201J <sup>^</sup>             | M39010/09A2R0J <sup>^</sup> | 2.0       | 30    | 7.9           | 115         | 0.40         | 395                  | 5                    |
| ER10M221 <sup>^</sup>              | M39010/09A2R2 <sup>^</sup>  | 2.2       | 30    | 7.9           | 115         | 0.40         | 395                  | 5, 10                |
| ER10M241J <sup>^</sup>             | M39010/09A2R4J <sup>^</sup> | 2.4       | 30    | 7.9           | 100         | 0.55         | 335                  | 5                    |
| ER10M271 <sup>^</sup>              | M39010/09A2R7 <sup>^</sup>  | 2.7       | 37    | 7.9           | 100         | 0.55         | 335                  | 5, 10                |
| ER10M301J <sup>^</sup>             | M39010/09A3R0J <sup>^</sup> | 3.0       | 37    | 7.9           | 90          | 0.85         | 270                  | 5                    |
| ER10M331 <sup>^</sup>              | M39010/09A3R3 <sup>^</sup>  | 3.3       | 45    | 7.9           | 90          | 0.85         | 270                  | 5, 10                |
| ER10M361J <sup>^</sup>             | M39010/09A3R6J <sup>^</sup> | 3.6       | 45    | 7.9           | 80          | 1.0          | 250                  | 5                    |
| ER10M391 <sup>^</sup>              | M39010/09A3R9 <sup>^</sup>  | 3.9       | 45    | 7.9           | 80          | 1.0          | 250                  | 5, 10                |
| ER10M431J <sup>^</sup>             | M39010/09A4R3J <sup>^</sup> | 4.3       | 45    | 7.9           | 75          | 1.2          | 230                  | 5                    |
| ER10M471 <sup>^</sup>              | M39010/09A4R7 <sup>^</sup>  | 4.7       | 45    | 7.9           | 75          | 1.2          | 230                  | 5, 10                |
| ER10M511J <sup>^</sup>             | M39010/09A5R1J <sup>^</sup> | 5.1       | 45    | 7.9           | 65          | 1.8          | 185                  | 5                    |
| ER10M561 <sup>^</sup>              | M39010/09A5R6 <sup>^</sup>  | 5.6       | 50    | 7.9           | 65          | 1.8          | 185                  | 5, 10                |
| ER10M621J <sup>^</sup>             | M39010/09A6R2J <sup>^</sup> | 6.2       | 50    | 7.9           | 60          | 2.0          | 175                  | 5                    |
| ER10M681 <sup>^</sup>              | M39010/09A6R8 <sup>^</sup>  | 6.8       | 50    | 7.9           | 60          | 2.0          | 175                  | 5, 10                |
| ER10M751J <sup>^</sup>             | M39010/09A7R5J <sup>^</sup> | 7.5       | 50    | 7.9           | 55          | 2.7          | 155                  | 5                    |
| ER10M821 <sup>^</sup>              | M39010/09A8R2 <sup>^</sup>  | 8.2       | 55    | 7.9           | 55          | 2.7          | 155                  | 5, 10                |
| ER10M911J <sup>^</sup>             | M39010/09A9R1J <sup>^</sup> | 9.1       | 55    | 7.9           | 50          | 3.7          | 130                  | 5                    |
| ER10M102 <sup>^</sup>              | M39010/09A100 <sup>^</sup>  | 10        | 55    | 7.9           | 50          | 3.7          | 130                  | 5, 10                |
| ER10M112J <sup>^</sup>             | M39010/09A110J <sup>^</sup> | 11        | 45    | 2.5           | 40          | 2.7          | 130                  | 5                    |
| ER10M122 <sup>^</sup>              | M39010/09A120 <sup>^</sup>  | 12        | 45    | 2.5           | 40          | 2.7          | 155                  | 5, 10                |
| ER10M132J <sup>^</sup>             | M39010/09A130J <sup>^</sup> | 13        | 40    | 2.5           | 35          | 2.8          | 150                  | 5                    |
| ER10M152 <sup>^</sup>              | M39010/09A150 <sup>^</sup>  | 15        | 40    | 2.5           | 35          | 2.8          | 150                  | 5, 10                |
| ER10M162J <sup>^</sup>             | M39010/09A160J <sup>^</sup> | 16        | 40    | 2.5           | 30          | 3.1          | 145                  | 5                    |
| ER10M182 <sup>^</sup>              | M39010/09A180 <sup>^</sup>  | 18        | 50    | 2.5           | 30          | 3.1          | 145                  | 5, 10                |
| ER10M202J <sup>^</sup>             | M39010/09A200J <sup>^</sup> | 20        | 50    | 2.5           | 25          | 3.3          | 140                  | 5                    |
| ER10M222 <sup>^</sup>              | M39010/09A220 <sup>^</sup>  | 22        | 50    | 2.5           | 25          | 3.3          | 140                  | 5, 10                |
| ER10M242J <sup>^</sup>             | M39010/09A240J <sup>^</sup> | 24        | 50    | 2.5           | 20          | 3.5          | 135                  | 5                    |
| ER10M272 <sup>^</sup>              | M39010/09A270 <sup>^</sup>  | 27        | 50    | 2.5           | 20          | 3.5          | 135                  | 5, 10                |

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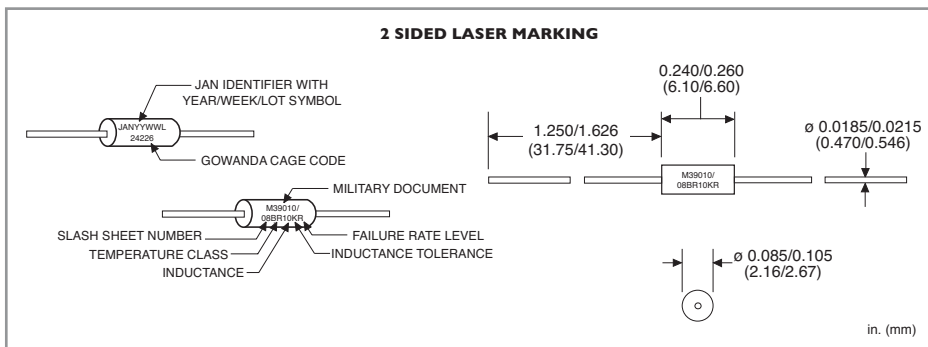
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M39010/08 Phenolic Core /09 Powdered Iron Core /10 Ferrite Core



| PART NUMBER                   | MIL PART NUMBER              | L<br>μH | Q<br>MIN | TEST<br>FREQ<br>MHZ | SRF<br>MHZ<br>MIN | DCR<br>OHMS<br>MAX | CURRENT<br>RATING<br>mA DC | INDUCTANCE<br>TOLERANCE |
|-------------------------------|------------------------------|---------|----------|---------------------|-------------------|--------------------|----------------------------|-------------------------|
| MIL-PRF-39010/10 FERRITE CORE |                              |         |          |                     |                   |                    |                            |                         |
| ER10M302J <sup>^</sup>        | M39010/10A300J <sup>^</sup>  | 30      | 45       | 2.5                 | 24                | 3.4                | 130                        | 5                       |
| ER10M332 <sup>^</sup> A       | M39010/10A330 <sup>^</sup> A | 33      | 45       | 2.5                 | 24                | 3.4                | 130                        | 5, 10                   |
| ER10M362J <sup>^</sup>        | M39010/10A360J <sup>^</sup>  | 36      | 45       | 2.5                 | 22                | 3.6                | 125                        | 5                       |
| ER10M392 <sup>^</sup> A       | M39010/10A390 <sup>^</sup> A | 39      | 45       | 2.5                 | 22                | 3.6                | 125                        | 5, 10                   |
| ER10M432J <sup>^</sup>        | M39010/10A430J <sup>^</sup>  | 43      | 45       | 2.5                 | 20                | 4.5                | 110                        | 5                       |
| ER10M472 <sup>^</sup> A       | M39010/10A470 <sup>^</sup> A | 47      | 45       | 2.5                 | 20                | 4.5                | 110                        | 5, 10                   |
| ER10M512J <sup>^</sup>        | M39010/10A510J <sup>^</sup>  | 51      | 45       | 2.5                 | 18                | 5.7                | 100                        | 5                       |
| ER10M562 <sup>^</sup> A       | M39010/10A560 <sup>^</sup> A | 56      | 45       | 2.5                 | 18                | 5.7                | 100                        | 5, 10                   |
| ER10M622J <sup>^</sup>        | M39010/10A620J <sup>^</sup>  | 62      | 45       | 2.5                 | 15                | 6.7                | 92                         | 5                       |
| ER10M682 <sup>^</sup> A       | M39010/10A680 <sup>^</sup> A | 68      | 50       | 2.5                 | 15                | 6.7                | 92                         | 5, 10                   |
| ER10M752J <sup>^</sup>        | M39010/10A750J <sup>^</sup>  | 75      | 50       | 2.5                 | 14                | 7.3                | 88                         | 5                       |
| ER10M822 <sup>^</sup> A       | M39010/10A820 <sup>^</sup> A | 82      | 50       | 2.5                 | 14                | 7.3                | 88                         | 5, 10                   |
| ER10M912J <sup>^</sup>        | M39010/10A910J <sup>^</sup>  | 91      | 50       | 2.5                 | 13                | 8.0                | 84                         | 5                       |
| ER10M103 <sup>^</sup> A       | M39010/10A101 <sup>^</sup> A | 100     | 50       | 2.5                 | 13                | 8.0                | 84                         | 5, 10                   |
| ER10M113J <sup>^</sup>        | M39010/10A111J <sup>^</sup>  | 110     | 30       | 0.79                | 12                | 13                 | 66                         | 5                       |
| ER10M123 <sup>^</sup> A       | M39010/10A121 <sup>^</sup> A | 120     | 30       | 0.79                | 12                | 13                 | 66                         | 5, 10                   |
| ER10M133J <sup>^</sup>        | M39010/10A131J <sup>^</sup>  | 130     | 30       | 0.79                | 11                | 15                 | 61                         | 5                       |
| ER10M153 <sup>^</sup> A       | M39010/10A151 <sup>^</sup> A | 150     | 30       | 0.79                | 11                | 15                 | 61                         | 5, 10                   |
| ER10M163J <sup>^</sup>        | M39010/10A161J <sup>^</sup>  | 160     | 30       | 0.79                | 10                | 17                 | 57                         | 5                       |
| ER10M183 <sup>^</sup> A       | M39010/10A181 <sup>^</sup> A | 180     | 30       | 0.79                | 10                | 17                 | 57                         | 5, 10                   |
| ER10M203J <sup>^</sup>        | M39010/10A201J <sup>^</sup>  | 200     | 30       | 0.79                | 9.0               | 21                 | 52                         | 5                       |
| ER10M223 <sup>^</sup> A       | M39010/10A221 <sup>^</sup> A | 220     | 30       | 0.79                | 9.0               | 21                 | 52                         | 5, 10                   |
| ER10M243J <sup>^</sup>        | M39010/10A241J <sup>^</sup>  | 240     | 30       | 0.79                | 8.0               | 25                 | 47                         | 5                       |
| ER10M273 <sup>^</sup> A       | M39010/10A271 <sup>^</sup> A | 270     | 30       | 0.79                | 8.0               | 25                 | 47                         | 5, 10                   |
| ER10M303J <sup>^</sup>        | M39010/10A301J <sup>^</sup>  | 300     | 30       | 0.79                | 7.0               | 28                 | 45                         | 5                       |
| ER10M333 <sup>^</sup> A       | M39010/10A331 <sup>^</sup> A | 330     | 30       | 0.79                | 7.0               | 28                 | 45                         | 5, 10                   |
| ER10M363J <sup>^</sup>        | M39010/10A361J <sup>^</sup>  | 360     | 30       | 0.79                | 6.5               | 35                 | 40                         | 5                       |
| ER10M393 <sup>^</sup> A       | M39010/10A391 <sup>^</sup> A | 390     | 30       | 0.79                | 6.5               | 35                 | 40                         | 5, 10                   |
| ER10M433J <sup>^</sup>        | M39010/10A431J <sup>^</sup>  | 430     | 30       | 0.79                | 6.0               | 42                 | 36                         | 5                       |
| ER10M473 <sup>^</sup> A       | M39010/10A471 <sup>^</sup> A | 470     | 30       | 0.79                | 6.0               | 42                 | 36                         | 5, 10                   |
| ER10M513J <sup>^</sup>        | M39010/10A511J <sup>^</sup>  | 510     | 30       | 0.79                | 5.0               | 46                 | 35                         | 5                       |
| ER10M563 <sup>^</sup> A       | M39010/10A561 <sup>^</sup> A | 560     | 30       | 0.79                | 5.0               | 46                 | 35                         | 5, 10                   |
| ER10M623J <sup>^</sup>        | M39010/10A621J <sup>^</sup>  | 620     | 30       | 0.79                | 4.0               | 60                 | 30                         | 5                       |
| ER10M683 <sup>^</sup> A       | M39010/10A681 <sup>^</sup> A | 680     | 30       | 0.79                | 4.0               | 60                 | 30                         | 5, 10                   |
| ER10M753J <sup>^</sup>        | M39010/10A751J <sup>^</sup>  | 750     | 30       | 0.79                | 3.8               | 65                 | 29                         | 5                       |
| ER10M823 <sup>^</sup> A       | M39010/10A821 <sup>^</sup> A | 820     | 30       | 0.79                | 3.8               | 65                 | 29                         | 5, 10                   |
| ER10M913J <sup>^</sup>        | M39010/10A911J <sup>^</sup>  | 910     | 30       | 0.79                | 3.4               | 72                 | 28                         | 5                       |
| ER10M104 <sup>^</sup> A       | M39010/10A102 <sup>^</sup> A | 1000    | 30       | 0.79                | 3.4               | 72                 | 28                         | 5, 10                   |

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