# ER10M

TRADITIONAL Pb

*Established Reliability*

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

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

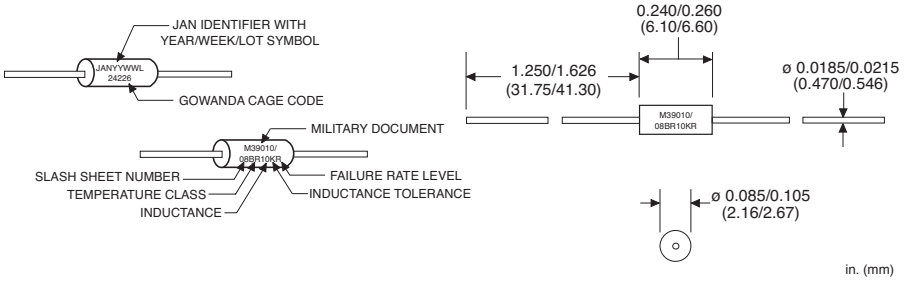
| PART NUMBER | MIL PART NUMBER | L µH | Q MIN | TEST FREQ MHZ | SRF MHz MIN | DCR OHMS MAX | CURRENT RATING mA DC | INDUCTANCE TOLERANCE |
|---|---|---|---|---|---|---|---|---|
| | | | MIL-PRF-39010/08 PHENOLIC CORE | | | | | |
| ER10M100*^ | M39010/08BR10*^ | 0.10 | 40 | 25 | 680 | 0.08 | 1350 | 5, 10 |
| ER10M110J^ | M39010/08BR11J^ | 0.11 | 40 | 25 | 640 | 0.09 | 1270 | 5 |
| ER10M120*^ | M39010/08BR12*^ | 0.12 | 40 | 25 | 640 | 0.09 | 1270 | 5, 10 |
| ER10M130J^ | M39010/08BR13J^ | 0.13 | 38 | 25 | 600 | 0.10 | 1200 | 5 |
| ER10M150*^ | M39010/08BR15*^ | 0.15 | 38 | 25 | 600 | 0.10 | 1200 | 5, 10 |
| ER10M160J^ | M39010/08BR16J^ | 0.16 | 35 | 25 | 550 | 0.12 | 1105 | 5 |
| ER10M180*^ | M39010/08BR18*^ | 0.18 | 35 | 25 | 550 | 0.12 | 1105 | 5, 10 |
| ER10M200J^ | M39010/08BR20J^ | 0.20 | 33 | 25 | 510 | 0.14 | 1025 | 5 |
| ER10M220*^ | M39010/08BR22*^ | 0.22 | 33 | 25 | 510 | 0.14 | 1025 | 5, 10 |
| ER10M240J^ | M39010/08BR24J^ | 0.24 | 33 | 25 | 430 | 0.16 | 960 | 5 |
| ER10M270*^ | M39010/08BR27*^ | 0.27 | 33 | 25 | 430 | 0.16 | 960 | 5, 10 |
| ER10M300J^ | M39010/08BR30J^ | 0.30 | 30 | 25 | 410 | 0.22 | 815 | 5 |
| ER10M330*^ | M39010/08BR33*^ | 0.33 | 30 | 25 | 410 | 0.22 | 815 | 5, 10 |
| ER10M360J^ | M39010/08BR36J^ | 0.36 | 30 | 25 | 365 | 0.30 | 700 | 5 |
| ER10M390*^ | M39010/08BR39*^ | 0.39 | 30 | 25 | 365 | 0.30 | 700 | 5, 10 |
| ER10M430J^ | M39010/08BR43J^ | 0.43 | 30 | 25 | 330 | 0.35 | 650 | 5 |
| ER10M470*^ | M39010/08BR47*^ | 0.47 | 30 | 25 | 330 | 0.35 | 650 | 5, 10 |
| ER10M510J^ | M39010/08BR51J^ | 0.51 | 30 | 25 | 300 | 0.50 | 545 | 5 |
| ER10M560*^ | M39010/08BR56*^ | 0.56 | 30 | 25 | 300 | 0.50 | 545 | 5,10 |
| ER10M620J^ | M39010/08BR62J^ | 0.62 | 28 | 25 | 275 | 0.60 | 495 | 5 |
| ER10M680*^ | M39010/08BR68*^ | 0.68 | 28 | 25 | 275 | 0.60 | 495 | 5,10 |
| ER10M750J^ | M39010/08BR75J^ | 0.75 | 28 | 25 | 250 | 0.85 | 415 | 5 |
| ER10M820*^ | M39010/08BR82*^ | 0.82 | 28 | 25 | 250 | 0.85 | 415 | 5, 10 |
| ER10M910J^ | M39010/08BR91J^ | 0.91 | 25 | 25 | 230 | 1.0 | 385 | 5 |
| ER10M101*^ | M39010/08B1R0*^ | 1.0 | 25 | 25 | 230 | 1.0 | 385 | 5, 10 |

*continued next page*

* Substitute “J” for 5% tolerance or “K” for 10% tolerance

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

**2 SIDED LASER MARKING**




**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

TRADITIONAL Pb

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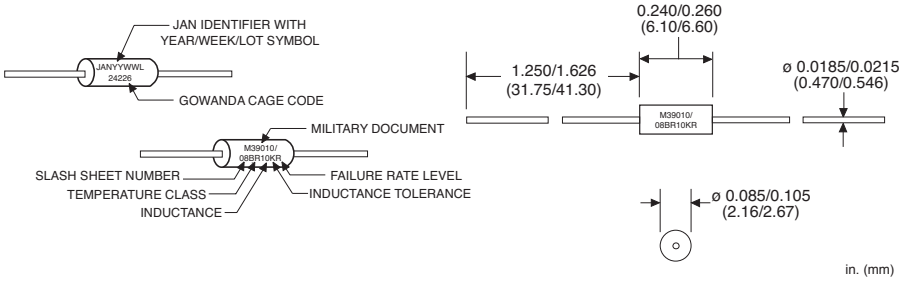
**2 SIDED LASER MARKING**




**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

TRADITIONAL Pb

*Established Reliability*

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

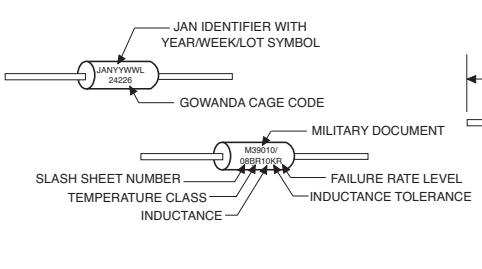
**M39010/08 Phenolic Core /09 Powdered Iron Core /10 Ferrite Core**

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

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

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

**2 SIDED LASER MARKING**




**NOTES:**

- Operating Temperature Range:
  -55°C to +125°C for /08 (Phenolic)
  -55°C to +105°C for /09 & /10
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- 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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