

ER18M Established Reliability

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

M39010/04 Phenolic Core /05 Powdered Iron 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-39010/04 PHENOLIC CORE								
ER18M150*1^	M39010/04BR15*1^	0.15	55	25	510	0.030	2900	5, 10, 20
ER18M160J^	M39010/04BR16J^	0.16	50	25	415	0.035	2700	5
ER18M180*2^	M39010/04BR18*2^	0.18	50	25	415	0.035	2700	5, 10
ER18M200J^	M39010/04BR20J^	0.20	50	25	415	0.035	2700	5
ER18M220*1^	M39010/04BR22*1^	0.22	50	25	415	0.035	2700	5, 10, 20
ER18M240J^	M39010/04BR24J^	0.24	50	25	350	0.065	2000	5
ER18M270*2^	M39010/04BR27*2^	0.27	50	25	350	0.065	2000	5, 10
ER18M300J^	M39010/04BR30J^	0.30	50	25	350	0.065	2000	5
ER18M330*1^	M39010/04BR33*1^	0.33	50	25	350	0.065	2000	5, 10, 20
ER18M360J^	M39010/04BR36J^	0.36	50	25	300	0.085	1700	5
ER18M390*2^	M39010/04BR39*2^	0.39	50	25	300	0.085	1700	5, 10
ER18M430J^	M39010/04BR43J^	0.43	50	25	300	0.085	1700	5
ER18M470*1^	M39010/04BR47*1^	0.47	50	25	300	0.085	1700	5, 10, 20
ER18M510J^	M39010/04BR51J^	0.51	50	25	270	0.125	1450	5
ER18M560*2^	M39010/04BR56*2^	0.56	50	25	270	0.125	1450	5, 10
ER18M620J^	M39010/04BR62J^	0.62	45	25	250	0.150	1300	5
ER18M680*2^	M39010/04BR68*2^	0.68	45	25	250	0.150	1300	5, 10
ER18M750J^	M39010/04BR75J^	0.75	40	25	210	0.205	1100	5
ER18M820*2^	M39010/04BR82*2^	0.82	40	25	210	0.205	1100	5, 10
ER18M910J^	M39010/04BR91J^	0.91	40	25	200	0.290	930	5
ER18M101*2^	M39010/04B1R0*2^	1.00	40	25	200	0.290	930	5, 10
ER18M111J^	M39010/04B1R1J^	1.10	30	7.9	180	0.400	785	5
ER18M121*2^	M39010/04B1R2*2^	1.20	30	7.9	180	0.400	785	5, 10
ER18M131J^	M39010/04B1R3J^	1.30	30	7.9	170	0.485	720	5
ER18M151*2^	M39010/04B1R5*2^	1.50	30	7.9	170	0.485	720	5, 10
ER18M161J^	M39010/04B1R6J^	1.60	30	7.9	150	0.740	580	5
ER18M181*2^	M39010/04B1R8*2^	1.80	30	7.9	150	0.740	580	5, 10
ER18M201J^	M39010/04B2R0J^	2.00	30	7.9	140	0.970	505	5
ER18M221*2^	M39010/04B2R2*2^	2.20	30	7.9	140	0.970	505	5, 10
ER18M241J^	M39010/04B2R4J^	2.40	30	7.9	120	1.20	460	5
ER18M271*2^	M39010/04B2R7*2^	2.70	30	7.9	120	1.20	460	5, 10

*1 Substitute "J" for 5% tolerance, "K" for 10% tolerance or "L" for 20% tolerance

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

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

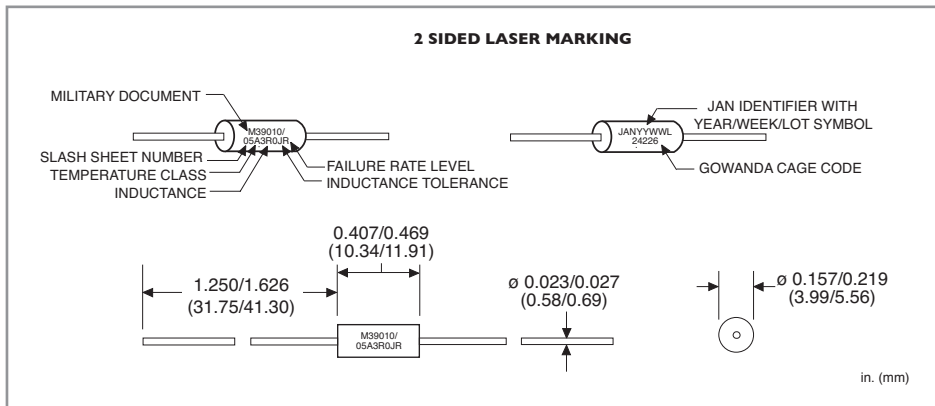
continued next page

NOTES:

- Operating Temperature Range:
-55°C to +105°C for /05 (Powdered Iron)
-55°C to +125°C for /04 (Phenolic)
- Current Rating @ a 90°C Ambient:
15°C Rise for /05 (Powdered Iron)
35°C Rise for /04 (Phenolic)
- Temperature Class:
Class A (105°C) for /05 (Powdered Iron)
Class B (125°C) for /04 (Phenolic)
- DWV 1000 Vrms @ Sea Level
200 Vrms @ 70,000 Feet
- Weight maximum 0.85 grams (0.03 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:	2000
Pitch between parts:	0.200 in.
Inside tape spacing:	2.062 in.
Reel diameter:	12 in.
Class:	1



continued from previous page

ER18M **Established Reliability**
Wirewound, Molded, Level R Qualified, MIL-PRF-39010
M39010/04 Phenolic Core /05 Powdered Iron Core

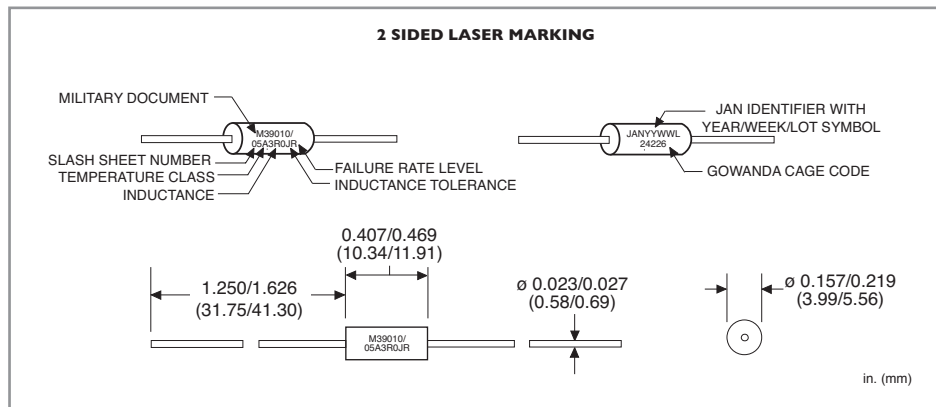


PART NUMBER	MIL PART NUMBER	L μ H	Q MIN	TEST FREQ MHZ	SRF MHz MIN	DCR OHMS MAX	CURRENT RATING mA DC	INDUCTANCE TOLERANCE
MIL-PRF-39010/05 POWDERED IRON CORE								
ER18M301J [^]	M39010/05A3R0J [^]	3.00	30	7.9	70	0.140	945	5
ER18M331 ^{*2^} [^]	M39010/05A3R3 ^{*2^} [^]	3.30	30	7.9	70	0.140	945	5, 10
ER18M361J [^]	M39010/05A3R6J [^]	3.60	30	7.9	65	0.155	870	5
ER18M391 ^{*2^} [^]	M39010/05A3R9 ^{*2^} [^]	3.90	30	7.9	65	0.155	870	5, 10
ER18M431J [^]	M39010/05A4R3J [^]	4.30	30	7.9	60	0.210	745	5
ER18M471 ^{*2^} [^]	M39010/05A4R7 ^{*2^} [^]	4.70	30	7.9	60	0.210	745	5, 10
ER18M511J [^]	M39010/05A5R1J [^]	5.10	30	7.9	50	0.280	645	5
ER18M561 ^{*2^} [^]	M39010/05A5R6 ^{*2^} [^]	5.60	30	7.9	50	0.280	645	5, 10
ER18M621J [^]	M39010/05A6R2J [^]	6.20	30	7.9	50	0.375	560	5
ER18M681 ^{*2^} [^]	M39010/05A6R8 ^{*2^} [^]	6.80	30	7.9	50	0.375	560	5, 10
ER18M751J [^]	M39010/05A7R5J [^]	7.50	30	7.9	48	0.440	520	5
ER18M821 ^{*2^} [^]	M39010/05A8R2 ^{*2^} [^]	8.20	30	7.9	48	0.440	520	5, 10
ER18M911J [^]	M39010/05A9R1J [^]	9.10	30	7.9	42	0.605	440	5
ER18M102 ^{*2^} [^]	M39010/05A100 ^{*2^} [^]	10.0	30	7.9	42	0.605	440	5, 10
ER18M112J [^]	M39010/05A110J [^]	11.0	30	2.5	36	1.05	335	5
ER18M122 ^{*2^} [^]	M39010/05A120 ^{*2^} [^]	12.0	50	2.5	36	1.05	335	5, 10
ER18M132J [^]	M39010/05A130J [^]	13.0	50	2.5	30	1.20	310	5
ER18M152 ^{*2^} [^]	M39010/05A150 ^{*2^} [^]	15.0	55	2.5	30	1.20	310	5, 10
ER18M162J [^]	M39010/05A160J [^]	16.0	55	2.5	30	1.95	245	5
ER18M182 ^{*2^} [^]	M39010/05A180 ^{*2^} [^]	18.0	60	2.5	30	1.95	245	5, 10
ER18M202J [^]	M39010/05A200J [^]	20.0	60	2.5	24	2.20	230	5
ER18M222 ^{*2^} [^]	M39010/05A220 ^{*2^} [^]	22.0	60	2.5	24	2.20	230	5, 10
ER18M242J [^]	M39010/05A240J [^]	24.0	60	2.5	22	2.75	205	5
ER18M272 ^{*2^} [^]	M39010/05A270 ^{*2^} [^]	27.0	65	2.5	22	2.75	205	5, 10

^{*1} Substitute "J" for 5% tolerance, "K" for 10% tolerance or "L" for 20% tolerance

^{*2} Substitute "J" for 5% tolerance or "K" for 10% tolerance

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



NOTES:

- Operating Temperature Range:
 - 55°C to +105°C for /05 (Powdered Iron)
 - 55°C to +125°C for /04 (Phenolic)
- Current Rating @ a 90°C Ambient:
 - 15°C Rise for /05 (Powdered Iron)
 - 35°C Rise for /04 (Phenolic)
- Temperature Class:
 - Class A (105°C) for /05 (Powdered Iron)
 - Class B (125°C) for /04 (Phenolic)
- DWV 1000 Vrms @ Sea Level
200 Vrms @ 70,000 Feet
- Weight maximum 0.85 grams (0.03 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:	2000
Pitch between parts:	0.200 in.
Inside tape spacing:	2.062 in.
Reel diameter:	12 in.
Class:	1