

ER18M SERIES

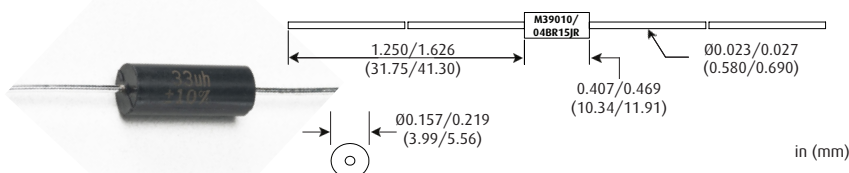
Established Reliability



M39010 Level-R Molded Unshielded Inductor

Military Specifications:

M39010/04, M39010/05



in (mm)

PART NUMBER	MIL DASH NO.	L μ H	IND TOL %	Q MIN	TEST FREQ MHz	SRF MHz MIN	DCR Ω MAX	CURRENT RATING mA DC
M39010/04 PHENOLIC CORE								
ER18M150J [^]	BR15J [^]	0.15	5, 10, 20	55	25	510	0.030	2900
ER18M160J [^]	BR16J [^]	0.16	5	50	25	415	0.035	2700
ER18M180J [^]	BR18J [^]	0.18	5, 10	50	25	415	0.035	2700
ER18M200J [^]	BR20J [^]	0.20	5	50	25	415	0.035	2700
ER18M220J [^]	BR22J [^]	0.22	5, 10, 20	50	25	415	0.035	2700
ER18M240J [^]	BR24J [^]	0.24	5	50	25	350	0.065	2000
ER18M270J [^]	BR27J [^]	0.27	5, 10	50	25	350	0.065	2000
ER18M300J [^]	BR30J [^]	0.30	5	50	25	350	0.065	2000
ER18M330J [^]	BR33J [^]	0.33	5, 10, 20	50	25	350	0.065	2000
ER18M360J [^]	BR36J [^]	0.36	5	50	25	300	0.085	1700
ER18M390J [^]	BR39J [^]	0.39	5, 10	50	25	300	0.085	1700
ER18M430J [^]	BR43J [^]	0.43	5	50	25	300	0.085	1700
ER18M470J [^]	BR47J [^]	0.47	5, 10, 20	50	25	300	0.085	1700
ER18M510J [^]	BR51J [^]	0.51	5	50	25	270	0.125	1450
ER18M560J [^]	BR56J [^]	0.56	5, 10	50	25	270	0.125	1450
ER18M620J [^]	BR62J [^]	0.62	5	45	25	250	0.150	1300
ER18M680J [^]	BR68J [^]	0.68	5, 10	45	25	250	0.150	1300
ER18M750J [^]	BR75J [^]	0.75	5	40	25	210	0.205	1100
ER18M820J [^]	BR82J [^]	0.82	5, 10	40	25	210	0.205	1100
ER18M910J [^]	BR91J [^]	0.91	5	40	25	200	0.290	930
ER18M101J [^]	B1R0J [^]	1.0	5, 10	40	25	200	0.290	930
ER18M111J [^]	B1R1J [^]	1.1	5	30	7.9	180	0.400	785
ER18M121J [^]	B1R2J [^]	1.2	5, 10	30	7.9	180	0.400	785
ER18M131J [^]	B1R3J [^]	1.3	5	30	7.9	170	0.485	720
ER18M151J [^]	B1R5J [^]	1.5	5, 10	30	7.9	170	0.485	720
ER18M161J [^]	B1R6J [^]	1.6	5	30	7.9	150	0.740	580
ER18M181J [^]	B1R8J [^]	1.8	5, 10	30	7.9	150	0.740	580
ER18M201J [^]	B2R0J [^]	2.0	5	30	7.9	140	0.970	505
ER18M221J [^]	B2R2J [^]	2.2	5, 10	30	7.9	140	0.970	505
ER18M241J [^]	B2R4J [^]	2.4	5	30	7.9	120	1.20	460
ER18M271J [^]	B2R7J [^]	2.7	5, 10	30	7.9	120	1.20	460
M39010/05 POWDERED IRON CORE								
ER18M301J [^]	A3R0J [^]	3.0	5	30	7.9	70	0.140	945
ER18M331J [^]	A3R3J [^]	3.3	5, 10	30	7.9	70	0.140	945
ER18M361J [^]	A3R6J [^]	3.6	5	30	7.9	65	0.155	870
ER18M391J [^]	A3R9J [^]	3.9	5, 10	30	7.9	65	0.155	870
ER18M431J [^]	A4R3J [^]	4.3	5	30	7.9	60	0.210	745
ER18M471J [^]	A4R7J [^]	4.7	5, 10	30	7.9	60	0.210	745
ER18M511J [^]	A5R1J [^]	5.1	5	30	7.9	50	0.280	645
ER18M561J [^]	A5R6J [^]	5.6	5, 10	30	7.9	50	0.280	645
ER18M621J [^]	A6R2J [^]	6.2	5	30	7.9	50	0.375	560
ER18M681J [^]	A6R8J [^]	6.8	5, 10	30	7.9	50	0.375	560
ER18M751J [^]	A7R5J [^]	7.5	5	30	7.9	48	0.440	520
ER18M821J [^]	A8R2J [^]	8.2	5, 10	30	7.9	48	0.440	520
ER18M911J [^]	A9R1J [^]	9.1	5	30	7.9	42	0.605	440
ER18M102J [^]	A100J [^]	10	5, 10	30	7.9	42	0.605	440
ER18M112J [^]	A110J [^]	11	5	30	2.5	36	1.05	335
ER18M122J [^]	A120J [^]	12	5, 10	50	2.5	36	1.05	335
ER18M132J [^]	A130J [^]	13	5	50	2.5	30	1.20	310
ER18M152J [^]	A150J [^]	15	5, 10	55	2.5	30	1.20	310
ER18M162J [^]	A160J [^]	16	5	55	2.5	30	1.95	245
ER18M182J [^]	A180J [^]	18	5, 10	60	2.5	30	1.95	245
ER18M202J [^]	A200J [^]	20	5	60	2.5	24	2.20	230
ER18M222J [^]	A220J [^]	22	5, 10	60	2.5	24	2.20	230
ER18M242J [^]	A240J [^]	24	5	60	2.5	22	2.75	205
ER18M272J [^]	A270J [^]	27	5, 10	65	2.5	22	2.75	205

NOTES

- Operating Temperature Range:
-55°C to +125°C for Phenolic
-55°C to +105°C for Powdered Iron
- Temperature Class:
Class B: 125°C for Phenolic
Class A: 105°C for Powdered Iron
- Current Rating at a 90°C Ambient:
35°C Rise for Phenolic
15°C Rise for Powdered Iron
- DWV 1000 Vrms @ Sea Level
200 Vrms @ 70,000 Feet
- Weight Max: 0.85 grams
- Marking: Laser Mark, 2 sided (see diagram above)
- Body Color: Black

PART NUMBER DERIVATION

GEC Series

Inductance: 2 signif. digits & mult.

ex: 150 = 0.15 μ H, 101 = 1.0 μ H, 102 = 10 μ H

Tolerance: M = 20%, K = 10%, J = 5%

(Table shows lowest standard tolerance option)

Product Level: M, P, R (^ Substitute M, P or R)

Termination: SnPb (Standard)

EXAMPLE OF ORDERING BY MILITARY PART NUMBER:

ER18M150JM → M39010/04BR15JM

TAPE AND REEL SPECS:

Pieces/reel maximum:	2000
Pitch between parts:	0.200 in.
Tape width:	2.062 in.
Reel diameter:	12 in.
Class:	1