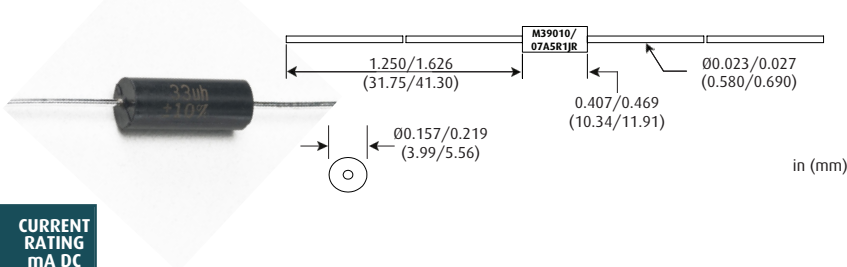


ER18M SERIES

Established Reliability

M39010 Level-R Molded Unshielded Inductor

Military Specifications:
M39010/04, M39010/05

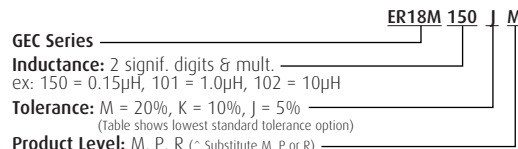


PART NUMBER	MIL DASH NO.	L μH	IND TOL %	Q MIN	TEST FREQ MHz	SRF MHz MIN	DCR Ω MAX	CURRENT RATING mA DC
M39010/04 PHENOLIC CORE								
ER18M150J	BR15J	0.15	5, 10, 20	55	25	510	0.030	2900
ER18M160J	BR16J	0.16	5	50	25	415	0.035	2700
ER18M180J	BR18J	0.18	5, 10	50	25	415	0.035	2700
ER18M200J	BR20J	0.20	5	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



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