

ER18M

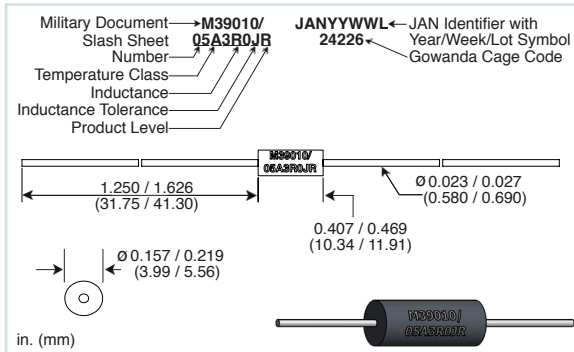


Established Reliability

M39010 Level-R Molded Unshielded Inductor

Military Specifications:

M39010/04, M39010/05



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 ^A	BR15J ^A	0.15	5, 10, 20	55	25	510	0.030	2900
ER18M160J ^A	BR16J ^A	0.16	5	50	25	415	0.035	2700
ER18M180J ^A	BR18J ^A	0.18	5, 10	50	25	415	0.035	2700
ER18M200J ^A	BR20J ^A	0.20	5	50	25	415	0.035	2700
ER18M220J ^A	BR22J ^A	0.22	5, 10, 20	50	25	415	0.035	2700
ER18M240J ^A	BR24J ^A	0.24	5	50	25	350	0.065	2000
ER18M270J ^A	BR27J ^A	0.27	5, 10	50	25	350	0.065	2000
ER18M300J ^A	BR30J ^A	0.30	5	50	25	350	0.065	2000
ER18M330J ^A	BR33J ^A	0.33	5, 10, 20	50	25	350	0.065	2000
ER18M360J ^A	BR36J ^A	0.36	5	50	25	300	0.085	1700
ER18M390J ^A	BR39J ^A	0.39	5, 10	50	25	300	0.085	1700
ER18M430J ^A	BR43J ^A	0.43	5	50	25	300	0.085	1700
ER18M470J ^A	BR47J ^A	0.47	5, 10, 20	50	25	300	0.085	1700
ER18M510J ^A	BR51J ^A	0.51	5	50	25	270	0.125	1450
ER18M560J ^A	BR56J ^A	0.56	5, 10	50	25	270	0.125	1450
ER18M620J ^A	BR62J ^A	0.62	5	45	25	250	0.150	1300
ER18M680J ^A	BR68J ^A	0.68	5, 10	45	25	250	0.150	1300
ER18M750J ^A	BR75J ^A	0.75	5	40	25	210	0.205	1100
ER18M820J ^A	BR82J ^A	0.82	5, 10	40	25	210	0.205	1100
ER18M910J ^A	BR91J ^A	0.91	5	40	25	200	0.290	930
ER18M101J ^A	B1R0J ^A	1.0	5, 10	40	25	200	0.290	930
ER18M111J ^A	B1R1J ^A	1.1	5	30	7.9	180	0.400	785
ER18M121J ^A	B1R2J ^A	1.2	5, 10	30	7.9	180	0.400	785
ER18M131J ^A	B1R3J ^A	1.3	5	30	7.9	170	0.485	720
ER18M151J ^A	B1R5J ^A	1.5	5, 10	30	7.9	170	0.485	720
ER18M161J ^A	B1R6J ^A	1.6	5	30	7.9	150	0.740	580
ER18M181J ^A	B1R8J ^A	1.8	5, 10	30	7.9	150	0.740	580
ER18M201J ^A	B2R0J ^A	2.0	5	30	7.9	140	0.970	505
ER18M221J ^A	B2R2J ^A	2.2	5, 10	30	7.9	140	0.970	505
ER18M241J ^A	B2R4J ^A	2.4	5	30	7.9	120	1.20	460
ER18M271J ^A	B2R7J ^A	2.7	5, 10	30	7.9	120	1.20	460
M39010/05 POWDERED IRON CORE								
ER18M301J ^A	A3R0J ^A	3.0	5	30	7.9	70	0.140	945
ER18M331J ^A	A3R3J ^A	3.3	5, 10	30	7.9	70	0.140	945
ER18M361J ^A	A3R6J ^A	3.6	5	30	7.9	65	0.155	870
ER18M391J ^A	A3R9J ^A	3.9	5, 10	30	7.9	65	0.155	870
ER18M431J ^A	A4R3J ^A	4.3	5	30	7.9	60	0.210	745
ER18M471J ^A	A4R7J ^A	4.7	5, 10	30	7.9	60	0.210	745
ER18M511J ^A	A5R1J ^A	5.1	5	30	7.9	50	0.280	645
ER18M561J ^A	A5R6J ^A	5.6	5, 10	30	7.9	50	0.280	645
ER18M621J ^A	A6R2J ^A	6.2	5	30	7.9	50	0.375	560
ER18M681J ^A	A6R8J ^A	6.8	5, 10	30	7.9	50	0.375	560
ER18M751J ^A	A7R5J ^A	7.5	5	30	7.9	48	0.440	520
ER18M821J ^A	A8R2J ^A	8.2	5, 10	30	7.9	48	0.440	520
ER18M911J ^A	A9R1J ^A	9.1	5	30	7.9	42	0.605	440
ER18M102J ^A	A100J ^A	10	5, 10	30	7.9	42	0.605	440
ER18M112J ^A	A110J ^A	11	5	30	2.5	36	1.05	335
ER18M122J ^A	A120J ^A	12	5, 10	50	2.5	36	1.05	335
ER18M132J ^A	A130J ^A	13	5	50	2.5	30	1.20	310
ER18M152J ^A	A150J ^A	15	5, 10	55	2.5	30	1.20	310
ER18M162J ^A	A160J ^A	16	5	55	2.5	30	1.95	245
ER18M182J ^A	A180J ^A	18	5, 10	60	2.5	30	1.95	245
ER18M202J ^A	A200J ^A	20	5	60	2.5	24	2.20	230
ER18M222J ^A	A220J ^A	22	5, 10	60	2.5	24	2.20	230
ER18M242J ^A	A240J ^A	24	5	60	2.5	22	2.75	205
ER18M272J ^A	A270J ^A	27	5, 10	65	2.5	22	2.75	205

NOTES:

- Operating Temperature Range:**
Phenolic: -55°C to +125°C
Iron: -55°C to +105°C
- Temperature Class:**
Phenolic: Class B (125°C)
Iron: Class A (105°C)
- Current Rating at 90°C Ambient:**
Phenolic: 35°C Rise
Iron: 15°C Rise
- DWV 1000 Vrms @ Sea Level**
200 Vrms @ 70,000 Feet
- Weight:** 0.85 grams
- Marking:** Laser Mark, 2 sided (see diagram above)
- Body color is black
- When ordering, specify **Tolerance and Product Level:**
ER18M150JM
Tolerance: M = 20%, K = 10%, J = 5%
(Table shows available standard tolerance options)
Product Level: M, P, R
^ Substitute M, P or R
- When ordering by military part number, specify **Military Spec, Dash No., Tolerance & Product Level:**

Example of ordering by Military Part Number:
ER18M150JM → M39010/04BR15JM

TAPE AND REEL SPECS:

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