

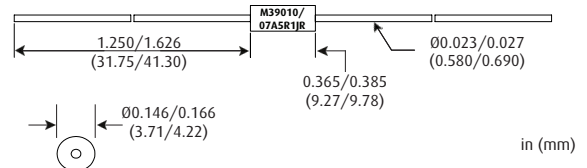
**ER15M SERIES**

Established Reliability



**M39010 Level-R Molded Unshielded Inductor**

Military Specifications:  
M39010/06, M39010/07



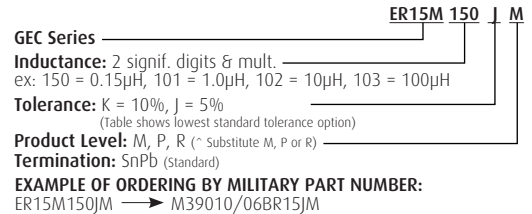
PART NUMBER	MIL DASH NO.	L μH	IND TOL %	Q MIN	TEST FREQ MHz	SRF MHz MIN	DCR Ω MAX	CURRENT RATING mA DC
<b>M39010/09 PHENOLIC CORE</b>								
ER15M150J^	BR15J^	0.15	5, 10, 20	50	25	525	0.030	2450
ER15M160J^	BR16J^	0.16	5	50	25	460	0.055	1810
ER15M180J^	BR18J^	0.18	5, 10	50	25	460	0.055	1810
ER15M200J^	BR20J^	0.20	5	50	25	460	0.055	1810
ER15M220J^	BR22J^	0.22	5, 10, 20	50	25	460	0.055	1810
ER15M240J^	BR24J^	0.24	5	45	25	360	0.090	1400
ER15M270J^	BR27J^	0.27	5, 10	45	25	360	0.090	1400
ER15M300J^	BR30J^	0.30	5	45	25	360	0.090	1400
ER15M330J^	BR33J^	0.33	5, 10, 20	45	25	360	0.090	1400
ER15M360J^	BR36J^	0.36	5	45	25	310	0.120	1225
ER15M390J^	BR39J^	0.39	5, 10	45	25	310	0.120	1225
ER15M430J^	BR43J^	0.43	5	45	25	310	0.120	1225
ER15M470J^	BR47J^	0.47	5, 10, 20	45	25	310	0.120	1225
ER15M510J^	BR51J^	0.51	5	45	25	280	0.135	1150
ER15M560J^	BR56J^	0.56	5, 10	50	25	280	0.135	1150
ER15M620J^	BR62J^	0.62	5	50	25	250	0.150	1100
ER15M680J^	BR68J^	0.68	5, 10	50	25	250	0.150	1100
ER15M750J^	BR75J^	0.75	5	50	25	220	0.220	900
ER15M820J^	BR82J^	0.82	5, 10	50	25	220	0.220	900
ER15M910J^	BR91J^	0.91	5	50	25	200	0.290	785
ER15M101J^	B1R0J^	1.0	5, 10	50	25	200	0.290	785
ER15M111J^	B1R1J^	1.1	5	33	7.9	180	0.420	650
ER15M121J^	B1R2J^	1.2	5, 10	33	7.9	180	0.420	650
ER15M131J^	B1R3J^	1.3	5	33	7.9	160	0.500	600
ER15M151J^	B1R5J^	1.5	5, 10	33	7.9	160	0.500	600
ER15M161J^	B1R6J^	1.6	5	33	7.9	150	0.650	525
ER15M181J^	B1R8J^	1.8	5, 10	33	7.9	150	0.650	525
ER15M201J^	B2R0J^	2.0	5	33	7.9	135	0.950	435
ER15M221J^	B2R2J^	2.2	5, 10	33	7.9	135	0.950	435
ER15M241J^	B2R4J^	2.4	5	33	7.9	120	1.20	385
ER15M271J^	B2R7J^	2.7	5, 10	33	7.9	120	1.20	385
ER15M301J^	B3R0J^	3.0	5	33	7.9	110	2.00	300
ER15M331J^	B3R3J^	3.3	5, 10	33	7.9	110	2.00	300
ER15M361J^	B3R6J^	3.6	5	33	7.9	100	2.30	280
ER15M391J^	B3R9J^	3.9	5, 10	33	7.9	100	2.30	280
ER15M431J^	B4R3J^	4.3	5	33	7.9	90	2.60	260
ER15M471J^	B4R7J^	4.7	5, 10	33	7.9	90	2.60	260
<b>M39010/07 POWDERED IRON CORE</b>								
ER15M511J^	A5R1J^	5.1	5	45	7.9	60	0.320	495
ER15M561J^	A5R6J^	5.6	5, 10	45	7.9	60	0.320	495
ER15M621J^	A6R2J^	6.2	5	45	7.9	55	0.500	395
ER15M681J^	A6R8J^	6.8	5, 10	50	7.9	55	0.500	395
ER15M751J^	A7R5J^	7.5	5	50	7.9	50	0.600	360
ER15M821J^	A8R2J^	8.2	5, 10	50	7.9	50	0.600	360
ER15M911J^	A9R1J^	9.1	5	50	7.9	45	0.900	290
ER15M102J^	A100J^	10	5, 10	55	7.9	45	0.900	290
ER15M112J^	A110J^	11	5	55	2.5	42	1.10	265
ER15M122J^	A120J^	12	5, 10	65	2.5	42	1.10	265
ER15M132J^	A130J^	13	5	65	2.5	40	1.40	240
ER15M152J^	A150J^	15	5, 10	65	2.5	40	1.40	240
ER15M162J^	A160J^	16	5	65	2.5	34	2.25	185
ER15M182J^	A180J^	18	5, 10	75	2.5	34	2.25	185
ER15M202J^	A200J^	20	5	75	2.5	30	2.50	175
ER15M222J^	A220J^	22	5, 10	75	2.5	30	2.50	175
ER15M242J^	A240J^	24	5	60	2.5	25	2.60	170
ER15M272J^	A270J^	27	5, 10	60	2.5	25	2.60	170
ER15M302J^	A300J^	30	5	60	2.5	19	3.00	165
ER15M332J^	A330J^	33	5, 10	65	2.5	19	3.00	165
ER15M362J^	A360J^	36	5	60	2.5	15.5	2.50	180
ER15M392J^	A390J^	39	5	60	2.5	14.5	2.60	176
ER15M432J^	A430J^	43	5	60	2.5	13.7	2.70	172
ER15M472J^	A470J^	47	5	55	2.5	13.0	2.75	170
ER15M512J^	A510J^	51	5	55	2.5	12.7	2.85	167
ER15M562J^	A560J^	56	5	55	2.5	12.0	3.00	164
ER15M622J^	A620J^	62	5	55	2.5	11.5	3.15	160
ER15M682J^	A680J^	68	5	55	2.5	11.0	3.30	156
ER15M752J^	A750J^	75	5	55	2.5	10.5	3.70	147
ER15M822J^	A820J^	82	5	50	2.5	10.3	3.90	143
ER15M912J^	A910J^	91	5	50	2.5	10.0	4.30	136

PART NUMBER	MIL DASH NO.	L μH	IND TOL %	Q MIN	TEST FREQ MHz	SRF MHz MIN	DCR Ω MAX	CURRENT RATING mA DC
<b>M39010/07 POWDERED IRON CORE (continued)</b>								
ER15M103J^	A101J^	100	5	50	2.5	9.5	4.50	133
ER15M113J^	A111J^	110	5	60	0.79	8.9	4.90	128
ER15M123J^	A121J^	120	5	65	0.79	8.7	5.20	124
ER15M133J^	A131J^	130	5	65	0.79	8.5	5.45	121
ER15M153J^	A151J^	150	5	65	0.79	8.0	6.05	114
ER15M163J^	A161J^	160	5	65	0.79	7.5	6.40	111
ER15M183J^	A181J^	180	5	65	0.79	7.0	6.75	108
ER15M203J^	A201J^	200	5	65	0.79	6.5	7.10	106
ER15M223J^	A221J^	220	5	65	0.79	6.2	7.45	103
ER15M243J^	A241J^	240	5	65	0.79	5.9	7.80	101

**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  
300 Vrms @ 70,000 Feet
- **Weight Max:** 0.85 grams
- **Marking:** Laser Mark, 2 sided (see diagram above)
- **Body Color:** Bslack

**PART NUMBER DERIVATION**



**TAPE AND REEL SPECS:**

Pieces/reel maximum:	2500
Pitch between parts:	0.200 in.
Tape width:	2.062 in.
Reel diameter:	12 in.
Class:	1