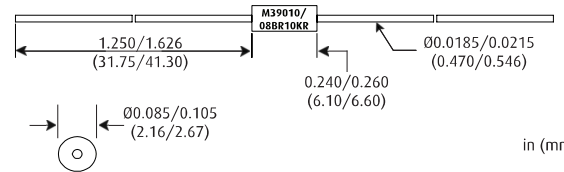


**ER10M SERIES**

Established Reliability



**M39010 Level-R Molded Unshielded Inductor**

Military Specifications:

M39010/08, M39010/09, M39010/10

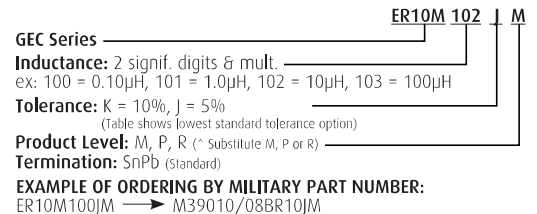
PART NUMBER	MIL DASH NO.	L μH	IND TOL %	Q MIN	TEST FREQ MHz	SRF MHz MIN	DCR Ω MAX	CURRENT RATING mA DC
<b>M39010/08 PHENOLIC CORE</b>								
ER10M100J	BR10J	0.10	5, 10	40	25	680	0.080	1350
ER10M110J	BR11J	0.11	5	40	25	660	0.085	1309
ER10M120J	BR12J	0.12	5, 10	40	25	640	0.090	1270
ER10M130J	BR13J	0.13	5	38	25	625	0.095	1239
ER10M150J	BR15J	0.15	5, 10	38	25	600	0.100	1200
ER10M160J	BR16J	0.16	5	35	25	580	0.110	1151
ER10M180J	BR18J	0.18	5, 10	35	25	550	0.120	1105
ER10M200J	BR20J	0.20	5	33	25	530	0.130	1059
ER10M220J	BR22J	0.22	5, 10	33	25	510	0.140	1025
ER10M240J	BR24J	0.24	5	33	25	475	0.150	986
ER10M270J	BR27J	0.27	5, 10	33	25	430	0.160	960
ER10M300J	BR30J	0.30	5	30	25	420	0.190	876
ER10M330J	BR33J	0.33	5, 10	30	25	410	0.220	815
ER10M360J	BR36J	0.36	5	30	25	385	0.260	749
ER10M390J	BR39J	0.39	5, 10	30	25	365	0.300	700
ER10M430J	BR43J	0.43	5	30	25	345	0.325	670
ER10M470J	BR47J	0.47	5, 10	30	25	330	0.350	650
ER10M510J	BR51J	0.51	5	30	25	310	0.420	589
ER10M560J	BR56J	0.56	5, 10	30	25	300	0.500	545
ER10M620J	BR62J	0.63	5	28	25	290	0.550	515
ER10M680J	BR68J	0.68	5, 10	28	25	275	0.600	495
ER10M750J	BR75J	0.75	5	28	25	265	0.710	453
ER10M820J	BR82J	0.82	5, 10	28	25	250	0.850	415
ER10M910J	BR91J	0.91	5	25	25	240	0.925	397
ER10M101J	B1R0J	1.00	5, 10	25	25	230	1.00	385
<b>M39010/09 POWDERED IRON CORE</b>								
ER10M111J	A1R1J	1.10	5	25	7.9	165	0.170	607
ER10M121J	A1R2J	1.20	5, 10	25	7.9	150	0.180	590
ER10M131J	A1R3J	1.30	5	28	7.9	145	0.200	560
ER10M151J	A1R5J	1.50	5, 10	28	7.9	140	0.220	535
ER10M161J	A1R6J	1.60	5	30	7.9	135	0.250	501
ER10M181J	A1R8J	1.80	5, 10	30	7.9	125	0.300	455
ER10M201J	A2R0J	2.00	5	30	7.9	120	0.350	425
ER10M221J	A2R2J	2.20	5, 10	30	7.9	115	0.400	395
ER10M241J	A2R4J	2.40	5	37	7.9	109	0.460	380
ER10M271J	A2R7J	2.70	5, 10	37	7.9	100	0.550	355
ER10M301J	A3R0J	3.00	5	45	7.9	95	0.700	299
ER10M331J	A3R3J	3.30	5, 10	45	7.9	90	0.850	270
ER10M361J	A3R6J	3.60	5	45	7.9	85	0.925	260
ER10M391J	A3R9J	3.90	5, 10	45	7.9	80	1.00	250
ER10M431J	A4R3J	4.30	5	45	7.9	77	1.10	240
ER10M471J	A4R7J	4.70	5, 10	45	7.9	75	1.20	230
ER10M511J	A5R1J	5.10	5	50	7.9	69	1.47	216
ER10M561J	A5R6J	5.60	5, 10	50	7.9	65	1.80	185
ER10M621J	A6R2J	6.20	5	50	7.9	62	1.90	180
ER10M681J	A6R8J	6.80	5, 10	50	7.9	60	2.00	180
ER10M751J	A7R5J	7.50	5	50	7.9	57	2.35	165
ER10M821J	A8R2J	8.20	5, 10	55	7.9	55	2.70	155
ER10M911J	A9R1J	9.10	5	55	7.9	52	3.00	145
ER10M102J	A100J	10	5, 10	55	7.9	50	3.70	130
ER10M112J	A110J	11	5	45	2.5	45	2.60	156
ER10M122J	A120J	12	5, 10	45	2.5	40	2.70	155
ER10M132J	A130J	13	5	45	2.5	38	2.80	150
ER10M152J	A150J	15	5, 10	45	2.5	35	2.80	150
ER10M162J	A160J	16	5	45	2.5	33	2.90	147
ER10M182J	A180J	18	5, 10	50	2.5	30	3.10	145
ER10M202J	A200J	20	5	50	2.5	27.5	3.20	142
ER10M222J	A220J	22	5, 10	50	2.5	25	3.30	140
ER10M242J	A240J	24	5	50	2.5	23	3.40	137
ER10M272J	A270J	27	5, 10	50	2.5	20	3.50	135
<b>M39010/10 FERRITE CORE</b>								
ER10M302J	A300J	30	5	45	2.5	22	3.30	132
ER10M332J	A330J	33	5, 10	45	2.5	24	3.40	130
ER10M362J	A360J	36	5	45	2.5	23	3.50	127
ER10M392J	A390J	39	5, 10	45	2.5	22	3.60	125
ER10M432J	A430J	43	5	45	2.5	21	4.10	116
ER10M472J	A470J	47	5, 10	45	2.5	20	4.50	110
ER10M512J	A510J	51	5	45	2.5	19	5.70	100
ER10M562J	A560J	56	5, 10	45	2.5	18	5.70	110

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>M39010/10 FERRITE CORE (continued)</b>								
ER10M622J	A620J	62	5	45	2.5	15	6.7	92
ER10M682J	A680J	68	5, 10	50	2.5	15	6.7	92
ER10M752J	A750J	75	5	50	2.5	14	7.3	88
ER10M822J	A820J	82	5, 10	50	2.5	14	7.3	88
ER10M912J	A910J	91	5	50	2.5	13	8.0	84
ER10M103J	A101J	100	5, 10	50	2.5	13	8.0	84
ER10M113J	A111J	110	5	30	0.79	12	13	66
ER10M123J	A121J	120	5, 10	30	0.79	12	13	66
ER10M133J	A131J	130	5	30	0.79	11	15	61
ER10M153J	A151J	150	5, 10	30	0.79	11	15	61
ER10M163J	A161J	160	5	30	0.79	10	17	57
ER10M183J	A181J	180	5, 10	30	0.79	10	17	57
ER10M203J	A201J	200	5	30	0.79	9.0	21	52
ER10M223J	A221J	220	5, 10	30	0.79	9.0	21	52
ER10M243J	A241J	240	5	30	0.79	8.0	25	47
ER10M273J	A271J	270	5, 10	30	0.79	8.0	25	47
ER10M303J	A301J	300	5	30	0.79	7.0	28	45
ER10M333J	A331J	330	5, 10	30	0.79	7.0	28	45
ER10M363J	A361J	360	5	30	0.79	6.5	35	40
ER10M393J	A391J	390	5, 10	30	0.79	6.5	35	40
ER10M433J	A431J	430	5	30	0.79	6.0	42	36
ER10M473J	A471J	470	5, 10	30	0.79	6.0	42	36
ER10M513J	A511J	510	5	30	0.79	5.0	46	35
ER10M563J	A561J	560	5, 10	30	0.79	5.0	46	35
ER10M623J	A621J	620	5	30	0.79	4.0	60	30
ER10M683J	A681J	680	5, 10	30	0.79	4.0	60	30
ER10M753J	A751J	750	5	30	0.79	3.8	65	29
ER10M823J	A821J	820	5, 10	30	0.79	3.8	65	29
ER10M913J	A911J	910	5	30	0.79	3.4	72	28
ER10M104J	A102J	1000	5, 10	30	0.79	3.4	72	28

**NOTES**

- **Operating Temperature Range:**  
 -55°C to +125°C for Phenolic  
 -55°C to +105°C for Powdered Iron & Ferrite
- **Temperature Class:**  
 Class B: 125°C for Phenolic  
 Class A: 105°C for Powdered Iron & Ferrite
- **Current Rating at a 90°C Ambient:**  
 35°C Rise for Phenolic  
 15°C Rise for Powdered Iron & Ferrite
- **DWV 1000 Vrms @ Sea Level**  
 300 Vrms @ 70,000 Feet for Phenolic & Powdered Iron  
 200 Vrms @ 70,000 Feet for Ferrite
- **Weight Max:** 0.283 grams
- **Marking:** Laser Mark, 2 Sided (see diagram above)
- **Body Color:** Black

**PART NUMBER DERIVATION**



**TAPE AND REEL SPECS:**

Pieces/reel maximum:	3500
Pitch between parts:	0.200 in.
Tape width:	2.062 in.
Reel diameter:	12 in.
Class:	1