

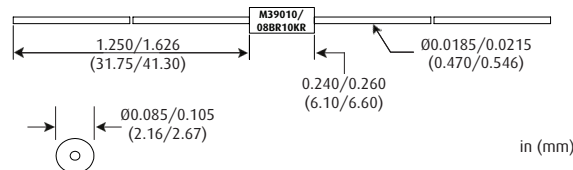
ER10M SERIES

Established Reliability

M39010 Level-R Molded Unshielded Inductor

Military Specifications:

M39010/08, M39010/09, M39010/10



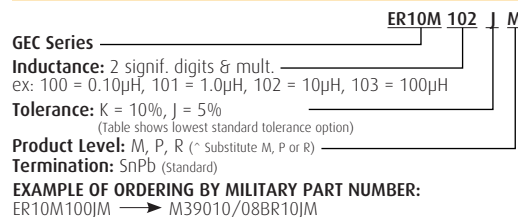
PART NUMBER	MIL DASH NO.	L μH	IND TOL %	Q MIN	TEST FREQ MHz	SRF MHz MIN	DCR Ω MAX	CURRENT RATING mA DC
M39010/08 PHENOLIC CORE								
ER10M100J^	BR10J^	0.10	5, 10	40	25	680	0.080	1350
ER10M110J^	BR11J^	0.11	5	40	25	660	0.085	1309
ER10M120J^	BR12J^	0.12	5, 10	40	25	640	0.090	1270
ER10M130J^	BR13J^	0.13	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
M39010/09 POWDERED IRON CORE								
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
M39010/10 FERRITE CORE								
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
M39010/10 FERRITE CORE (continued)								
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