

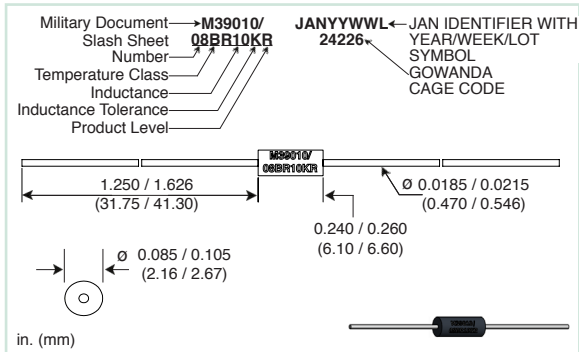
**ER10M** TRADITIONAL Pb

**Established Reliability**

**M39010 Level-R Molded Unshielded Inductor**

**Military Specifications:**

M39010/08, M39010/09, M39010/10



**NOTES:**

- **Operating Temperature Range:**  
Phenolic: -55°C to +125°C  
Iron & Ferrite: -55°C to +105°C
- **Temperature Class:**  
Phenolic: Class B (125°C)  
Iron & Ferrite: Class A (105°C)
- **Current Rating at 90°C Ambient:**  
Phenolic: 35°C Rise  
Iron & Ferrite: 15°C Rise
- **DWV 1000 Vrms @ Sea Level**  
Phenolic & Iron: 300 Vrms @ 70,000 Feet  
Ferrite: 200 Vrms @ 70,000 Feet
- **Weight:** 0.283 grams
- **Marking:** Laser Mark, 2 sided (see diagram above)
- Body color is black
- When ordering, specify **Tolerance** and **Product Level:**

ER10M100JM

**Tolerance:** 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:**

M39010/08BR10JM

Example of ordering by Military Part Number:  
ER10M100JM → M39010/08BR10JM

**TAPE AND REEL SPECS:**

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

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 <sup>A</sup>	BR10J <sup>A</sup>	0.10	5, 10	40	25	680	0.08	1350
ER10M110J <sup>A</sup>	BR11J <sup>A</sup>	0.11	5	40	25	640	0.09	1270
ER10M120J <sup>A</sup>	BR12J <sup>A</sup>	0.12	5, 10	40	25	640	0.09	1270
ER10M130J <sup>A</sup>	BR13J <sup>A</sup>	0.13	5	38	25	600	0.10	1200
ER10M150J <sup>A</sup>	BR15J <sup>A</sup>	0.15	5, 10	38	25	600	0.10	1200
ER10M160J <sup>A</sup>	BR16J <sup>A</sup>	0.16	5	35	25	550	0.12	1105
ER10M180J <sup>A</sup>	BR18J <sup>A</sup>	0.18	5, 10	35	25	550	0.12	1105
ER10M200J <sup>A</sup>	BR20J <sup>A</sup>	0.20	5	33	25	510	0.14	1025
ER10M220J <sup>A</sup>	BR22J <sup>A</sup>	0.22	5, 10	33	25	510	0.14	1025
ER10M240J <sup>A</sup>	BR24J <sup>A</sup>	0.24	5	33	25	430	0.16	960
ER10M270J <sup>A</sup>	BR27J <sup>A</sup>	0.27	5, 10	33	25	430	0.16	960
ER10M300J <sup>A</sup>	BR30J <sup>A</sup>	0.30	5	30	25	410	0.22	815
ER10M330J <sup>A</sup>	BR33J <sup>A</sup>	0.33	5, 10	30	25	410	0.22	815
ER10M360J <sup>A</sup>	BR36J <sup>A</sup>	0.36	5	30	25	365	0.30	700
ER10M390J <sup>A</sup>	BR39J <sup>A</sup>	0.39	5, 10	30	25	365	0.30	700
ER10M430J <sup>A</sup>	BR43J <sup>A</sup>	0.43	5	30	25	330	0.35	650
ER10M470J <sup>A</sup>	BR47J <sup>A</sup>	0.47	5, 10	30	25	330	0.35	650
ER10M510J <sup>A</sup>	BR51J <sup>A</sup>	0.51	5	30	25	300	0.50	545
ER10M560J <sup>A</sup>	BR56J <sup>A</sup>	0.56	5, 10	30	25	300	0.50	545
ER10M620J <sup>A</sup>	BR62J <sup>A</sup>	0.62	5	28	25	275	0.60	495
ER10M680J <sup>A</sup>	BR68J <sup>A</sup>	0.68	5, 10	28	25	275	0.60	495
ER10M750J <sup>A</sup>	BR75J <sup>A</sup>	0.75	5	28	25	250	0.85	415
ER10M820J <sup>A</sup>	BR82J <sup>A</sup>	0.82	5, 10	28	25	250	0.85	415
ER10M910J <sup>A</sup>	BR91J <sup>A</sup>	0.91	5	25	25	230	1.0	385
ER10M101J <sup>A</sup>	B1R0J <sup>A</sup>	1.0	5, 10	25	25	230	1.0	385
<b>M39010/09 POWDERED IRON CORE</b>								
ER10M111J <sup>A</sup>	A1R1J <sup>A</sup>	1.1	5	25	7.9	150	0.18	590
ER10M121J <sup>A</sup>	A1R2J <sup>A</sup>	1.2	5, 10	25	7.9	150	0.18	590
ER10M131J <sup>A</sup>	A1R3J <sup>A</sup>	1.3	5	25	7.9	140	0.22	535
ER10M151J <sup>A</sup>	A1R5J <sup>A</sup>	1.5	5, 10	28	7.9	140	0.22	535
ER10M161J <sup>A</sup>	A1R6J <sup>A</sup>	1.6	5	28	7.9	125	0.30	455
ER10M181J <sup>A</sup>	A1R8J <sup>A</sup>	1.8	5, 10	30	7.9	125	0.30	455
ER10M201J <sup>A</sup>	A2R0J <sup>A</sup>	2.0	5	30	7.9	115	0.40	395
ER10M221J <sup>A</sup>	A2R2J <sup>A</sup>	2.2	5, 10	30	7.9	115	0.40	395
ER10M241J <sup>A</sup>	A2R4J <sup>A</sup>	2.4	5	30	7.9	100	0.55	335
ER10M271J <sup>A</sup>	A2R7J <sup>A</sup>	2.7	5, 10	37	7.9	100	0.55	335
ER10M301J <sup>A</sup>	A3R0J <sup>A</sup>	3.0	5	37	7.9	90	0.85	270
ER10M331J <sup>A</sup>	A3R3J <sup>A</sup>	3.3	5, 10	45	7.9	90	0.85	270
ER10M361J <sup>A</sup>	A3R6J <sup>A</sup>	3.6	5	45	7.9	80	1.0	250
ER10M391J <sup>A</sup>	A3R9J <sup>A</sup>	3.9	5, 10	45	7.9	80	1.0	250
ER10M431J <sup>A</sup>	A4R3J <sup>A</sup>	4.3	5	45	7.9	75	1.2	230
ER10M471J <sup>A</sup>	A4R7J <sup>A</sup>	4.7	5, 10	45	7.9	75	1.2	230
ER10M511J <sup>A</sup>	A5R1J <sup>A</sup>	5.1	5	45	7.9	65	1.8	185
ER10M561J <sup>A</sup>	A5R6J <sup>A</sup>	5.6	5, 10	50	7.9	65	1.8	185
ER10M621J <sup>A</sup>	A6R2J <sup>A</sup>	6.2	5	50	7.9	60	2.0	175
ER10M681J <sup>A</sup>	A6R8J <sup>A</sup>	6.8	5, 10	50	7.9	60	2.0	175
ER10M751J <sup>A</sup>	A7R5J <sup>A</sup>	7.5	5	50	7.9	55	2.7	155
ER10M821J <sup>A</sup>	A8R2J <sup>A</sup>	8.2	5, 10	55	7.9	55	2.7	155
ER10M911J <sup>A</sup>	A9R1J <sup>A</sup>	9.1	5	55	7.9	50	3.7	130
ER10M102J <sup>A</sup>	A100J <sup>A</sup>	10	5, 10	55	7.9	50	3.7	130
ER10M112J <sup>A</sup>	A110J <sup>A</sup>	11	5	45	2.5	40	2.7	130
ER10M122J <sup>A</sup>	A120J <sup>A</sup>	12	5, 10	45	2.5	40	2.7	155
ER10M132J <sup>A</sup>	A130J <sup>A</sup>	13	5	40	2.5	35	2.8	150
ER10M152J <sup>A</sup>	A150J <sup>A</sup>	15	5, 10	40	2.5	35	2.8	150
ER10M162J <sup>A</sup>	A160J <sup>A</sup>	16	5	40	2.5	30	3.1	145
ER10M182J <sup>A</sup>	A180J <sup>A</sup>	18	5, 10	50	2.5	30	3.1	145
ER10M202J <sup>A</sup>	A200J <sup>A</sup>	20	5	50	2.5	25	3.3	140
ER10M222J <sup>A</sup>	A220J <sup>A</sup>	22	5, 10	50	2.5	25	3.3	140
ER10M242J <sup>A</sup>	A240J <sup>A</sup>	24	5	50	2.5	20	3.5	135
ER10M272J <sup>A</sup>	A270J <sup>A</sup>	27	5, 10	50	2.5	20	3.5	135

## ER10M

**Established Reliability**

M39010 Molded Unshielded Inductor

**Military Specifications:**

M39010/08, M39010/09, M39010/10

PART NUMBER	MIL DASH NUMBER	L $\mu$ H	IND TOL %	Q MIN	TEST FREQ MHz	SRF MHz MIN	DCR $\Omega$ MAX	CURRENT RATING mA DC
<b>M39010/10 FERRITE CORE</b>								
ER10M302J <sup>A</sup>	A300J <sup>A</sup>	30	5	45	2.5	24	3.4	130
ER10M332J <sup>A</sup>	A330J <sup>A</sup>	33	5, 10	45	2.5	24	3.4	130
ER10M362J <sup>A</sup>	A360J <sup>A</sup>	36	5	45	2.5	22	3.6	125
ER10M392J <sup>A</sup>	A390J <sup>A</sup>	39	5, 10	45	2.5	22	3.6	125
ER10M432J <sup>A</sup>	A430J <sup>A</sup>	43	5	45	2.5	20	4.5	110
ER10M472J <sup>A</sup>	A470J <sup>A</sup>	47	5, 10	45	2.5	20	4.5	110
ER10M512J <sup>A</sup>	A510J <sup>A</sup>	51	5	45	2.5	18	5.7	100
ER10M562J <sup>A</sup>	A560J <sup>A</sup>	56	5, 10	45	2.5	18	5.7	100
ER10M622J <sup>A</sup>	A620J <sup>A</sup>	62	5	45	2.5	15	6.7	92
ER10M682J <sup>A</sup>	A680J <sup>A</sup>	68	5, 10	50	2.5	15	6.7	92
ER10M752J <sup>A</sup>	A750J <sup>A</sup>	75	5	50	2.5	14	7.3	88
ER10M822J <sup>A</sup>	A820J <sup>A</sup>	82	5, 10	50	2.5	14	7.3	88
ER10M912J <sup>A</sup>	A910J <sup>A</sup>	91	5	50	2.5	13	8.0	84
ER10M103J <sup>A</sup>	A101J <sup>A</sup>	100	5, 10	50	2.5	13	8.0	84
ER10M113J <sup>A</sup>	A111J <sup>A</sup>	110	5	30	0.79	12	13	66
ER10M123J <sup>A</sup>	A121J <sup>A</sup>	120	5, 10	30	0.79	12	13	66
ER10M133J <sup>A</sup>	A131J <sup>A</sup>	130	5	30	0.79	11	15	61
ER10M153J <sup>A</sup>	A151J <sup>A</sup>	150	5, 10	30	0.79	11	15	61
ER10M163J <sup>A</sup>	A161J <sup>A</sup>	160	5	30	0.79	10	17	57
ER10M183J <sup>A</sup>	A181J <sup>A</sup>	180	5, 10	30	0.79	10	17	57
ER10M203J <sup>A</sup>	A201J <sup>A</sup>	200	5	30	0.79	9	21	52
ER10M223J <sup>A</sup>	A221J <sup>A</sup>	220	5, 10	30	0.79	9	21	52
ER10M243J <sup>A</sup>	A241J <sup>A</sup>	240	5	30	0.79	8	25	47
ER10M273J <sup>A</sup>	A271J <sup>A</sup>	270	5, 10	30	0.79	8	25	47
ER10M303J <sup>A</sup>	A301J <sup>A</sup>	300	5	30	0.79	7	28	45
ER10M333J <sup>A</sup>	A331J <sup>A</sup>	330	5, 10	30	0.79	7	28	45
ER10M363J <sup>A</sup>	A361J <sup>A</sup>	360	5	30	0.79	6.5	35	40
ER10M393J <sup>A</sup>	A391J <sup>A</sup>	390	5, 10	30	0.79	6.5	35	40
ER10M433J <sup>A</sup>	A431J <sup>A</sup>	430	5	30	0.79	6	42	36
ER10M473J <sup>A</sup>	A471J <sup>A</sup>	470	5, 10	30	0.79	6	42	36
ER10M513J <sup>A</sup>	A511J <sup>A</sup>	510	5	30	0.79	5	46	35
ER10M563J <sup>A</sup>	A561J <sup>A</sup>	560	5, 10	30	0.79	5	46	35
ER10M623J <sup>A</sup>	A621J <sup>A</sup>	620	5	30	0.79	4	60	30
ER10M683J <sup>A</sup>	A681J <sup>A</sup>	680	5, 10	30	0.79	4	60	30
ER10M753J <sup>A</sup>	A751J <sup>A</sup>	750	5	30	0.79	3.8	65	29
ER10M823J <sup>A</sup>	A821J <sup>A</sup>	820	5, 10	30	0.79	3.8	65	29
ER10M913J <sup>A</sup>	A911J <sup>A</sup>	910	5	30	0.79	3.4	72	28
ER10M104J <sup>A</sup>	A102J <sup>A</sup>	1000	5, 10	30	0.79	3.4	72	28