

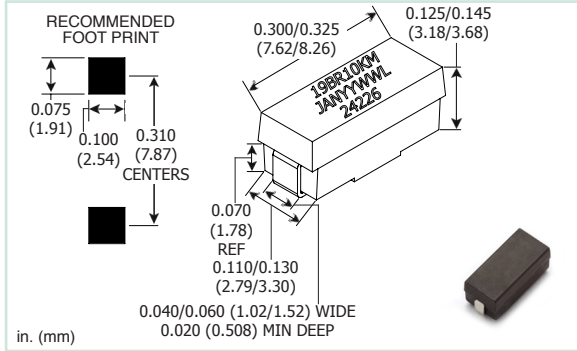
**ER3013** 

**Established Reliability**

**M39010 Level-M Molded Shielded Inductor**

**Military Specifications:**

M39010/19, M39010/20, M39010/21



**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 500 Vrms @ Sea Level**  
200 Vrms @ 70,000 Feet
- **Weight:** 0.030 grams
- **Marking:** Laser Mark (see diagram above)
- Body color is black
- Magnetic Shielding: 3% Max Coupling
- When ordering, specify **Tolerance and Product Level:**

ER3013-100JM

**Tolerance:** K = 10%, J = 5%  
(Table shows available standard tolerance options)

**Product Level:** M

- When ordering by military part number, specify **Military Spec, Dash No., Tolerance & Product Level:**

M39010/19BR10JM

Example of ordering by Military Part Number:  
ER3013-100JM → M39010/19BR10JM

**TAPE AND REEL SPECS:**

Pcs./Reel maximum:	2200
Pitch between parts:	8 mm
Inside tape spacing:	16 mm
Reel diameter:	13 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>MIL-PRF-39010/19 PHENOLIC CORE</b>								
ER3013-100JM	BR10JM	0.10	5, 10	40	25	680	0.08	1380
ER3013-110JM	BR11JM	0.11	5	40	25	640	0.09	1300
ER3013-120JM	BR12JM	0.12	5, 10	40	25	640	0.09	1300
ER3013-130JM	BR13JM	0.13	5	38	25	600	0.10	1230
ER3013-150JM	BR15JM	0.15	5, 10	38	25	600	0.10	1230
ER3013-160JM	BR16JM	0.16	5	35	25	550	0.12	1120
ER3013-180JM	BR18JM	0.18	5, 10	35	25	550	0.12	1120
ER3013-200JM	BR20JM	0.20	5	33	25	510	0.14	1040
ER3013-220JM	BR22JM	0.22	5, 10	33	25	510	0.14	1040
ER3013-240JM	BR24JM	0.24	5	33	25	430	0.16	975
ER3013-270JM	BR27JM	0.27	5, 10	33	25	430	0.16	975
ER3013-300JM	BR30JM	0.30	5	30	25	410	0.22	830
ER3013-330JM	BR33JM	0.33	5, 10	30	25	410	0.22	830
ER3013-360JM	BR36JM	0.36	5	30	25	365	0.30	710
ER3013-390JM	BR39JM	0.39	5, 10	30	25	365	0.30	710
ER3013-430JM	BR43JM	0.43	5	30	25	330	0.35	660
ER3013-470JM	BR47JM	0.47	5, 10	30	25	330	0.35	660
ER3013-510JM	BR51JM	0.51	5	30	25	300	0.50	550
ER3013-560JM	BR56JM	0.56	5, 10	30	25	300	0.50	550
ER3013-620JM	BR62JM	0.62	5	28	25	275	0.60	500
ER3013-680JM	BR68JM	0.68	5, 10	28	25	275	0.60	500
ER3013-750JM	BR75JM	0.75	5	28	25	250	0.85	420
ER3013-820JM	BR82JM	0.82	5, 10	28	25	250	0.85	420
ER3013-910JM	BR91JM	0.91	5	25	25	230	1.0	390
ER3013-101JM	B1R0JM	1.0	5, 10	25	25	230	1.0	390

<b>MIL-PRF-39010/20 POWDERED CORE</b>								
ER3013-111JM	A1R1JM	1.1	5	25	7.9	150	0.18	620
ER3013-121JM	A1R2JM	1.2	5, 10	25	7.9	150	0.18	620
ER3013-131JM	A1R3JM	1.3	5	25	7.9	140	0.22	560
ER3013-151JM	A1R5JM	1.5	5, 10	28	7.9	140	0.22	560
ER3013-161JM	A1R6JM	1.6	5	28	7.9	125	0.30	480
ER3013-181JM	A1R8JM	1.8	5, 10	30	7.9	125	0.30	480
ER3013-201JM	A2R0JM	2.0	5	30	7.9	115	0.40	415
ER3013-221JM	A2R2JM	2.2	5, 10	30	7.9	115	0.40	415
ER3013-241JM	A2R4JM	2.4	5	30	7.9	100	0.55	355
ER3013-271JM	A2R7JM	2.7	5, 10	37	7.9	100	0.55	355
ER3013-301JM	A3R0JM	3.0	5	37	7.9	90	0.85	285
ER3013-331JM	A3R3JM	3.3	5, 10	45	7.9	90	0.85	285
ER3013-361JM	A3R6JM	3.6	5	45	7.9	80	1.0	263
ER3013-391JM	A3R9JM	3.9	5, 10	45	7.9	80	1.0	263
ER3013-431JM	A4R3JM	4.3	5	45	7.9	75	1.2	239
ER3013-471JM	A4R7JM	4.7	5, 10	45	7.9	75	1.2	239
ER3013-511JM	A5R1JM	5.1	5	45	7.9	65	1.8	195
ER3013-561JM	A5R6JM	5.6	5, 10	50	7.9	65	1.8	195
ER3013-621JM	A6R2JM	6.2	5	50	7.9	60	2.0	185
ER3013-681JM	A6R8JM	6.8	5, 10	50	7.9	60	2.0	185
ER3013-751JM	A7R5JM	7.5	5	50	7.9	55	2.7	160
ER3013-821JM	A8R2JM	8.2	5, 10	55	7.9	55	2.7	160
ER3013-911JM	A9R1JM	9.1	5	55	7.9	50	3.7	144
ER3013-102JM	A100JM	10	5, 10	55	7.9	50	3.7	144
ER3013-112JM	A110JM	11	5	45	2.5	40	2.7	160
ER3013-122JM	A120JM	12	5, 10	45	2.5	40	2.7	160
ER3013-132JM	A130JM	13	5	45	2.5	35	2.8	157
ER3013-152JM	A150JM	15	5, 10	45	2.5	35	2.8	157
ER3013-162JM	A160JM	16	5	45	2.5	30	3.1	149
ER3013-182JM	A180JM	18	5, 10	50	2.5	30	3.1	149
ER3013-202JM	A200JM	20	5	50	2.5	25	3.3	144
ER3013-222JM	A220JM	22	5, 10	50	2.5	25	3.3	144
ER3013-242JM	A240JM	24	5	50	2.5	20	3.5	140
ER3013-272JM	A270JM	27	5, 10	50	2.5	20	3.5	140

## ER3013

**Established Reliability**

*M39010 Level-M Molded Shielded Inductor*

**Military Specifications:**

M39010/19, M39010/20, M39010/21

PART NUMBER	MIL DASH No.	L $\mu$ H	IND TOL %	Q MIN	TEST FREQ MHz	SRF MHz MIN	DCR $\Omega$ MAX	CURRENT RATING mA DC
<b>MIL-PRF-39010/21 FERRITE CORE</b>								
ER3013-302JM	A300JM	30	5	45	2.5	24	3.4	130
ER3013-332JM	A330JM	33	5, 10	45	2.5	24	3.4	130
ER3013-362JM	A360JM	36	5	45	2.5	22	3.6	125
ER3013-392JM	A390JM	39	5, 10	45	2.5	22	3.6	125
ER3013-432JM	A430JM	43	5	45	2.5	20	4.5	110
ER3013-472JM	A470JM	47	5, 10	45	2.5	20	4.5	110
ER3013-512JM	A510JM	51	5	45	2.5	18	5.7	100
ER3013-562JM	A560JM	56	5, 10	45	2.5	18	5.7	100
ER3013-622JM	A620JM	62	5	45	2.5	15	6.7	92
ER3013-682JM	A680JM	68	5, 10	50	2.5	15	6.7	92
ER3013-752JM	A750JM	75	5	50	2.5	14	7.3	88
ER3013-822JM	A820JM	82	5, 10	50	2.5	14	7.3	88
ER3013-912JM	A910JM	91	5	50	2.5	13	8.0	84
ER3013-103JM	A101JM	100	5, 10	50	2.5	13	8.0	84
ER3013-113JM	A111JM	110	5	30	0.79	12	13	66
ER3013-123JM	A121JM	120	5, 10	30	0.79	12	13	66
ER3013-133JM	A131JM	130	5	30	0.79	11	15	61
ER3013-153JM	A151JM	150	5, 10	30	0.79	11	15	61
ER3013-163JM	A161JM	160	5	30	0.79	10	17	57
ER3013-183JM	A181JM	180	5, 10	30	0.79	10	17	57
ER3013-203JM	A201JM	200	5	30	0.79	9	21	52
ER3013-223JM	A221JM	220	5, 10	30	0.79	9	21	52
ER3013-243JM	A241JM	240	5	30	0.79	8	25	47
ER3013-273JM	A271JM	270	5, 10	30	0.79	8	25	47
ER3013-303JM	A301JM	300	5	30	0.79	7	28	45
ER3013-333JM	A331JM	330	5, 10	30	0.79	7	28	45
ER3013-363JM	A361JM	360	5	30	0.79	6.5	35	40
ER3013-393JM	A391JM	390	5, 10	30	0.79	6.5	35	40
ER3013-433JM	A431JM	430	5	30	0.79	6	42	36
ER3013-473JM	A471JM	470	5, 10	30	0.79	6	42	36
ER3013-513JM	A511JM	510	5	30	0.79	5	46	35
ER3013-563JM	A561JM	560	5, 10	30	0.79	5	46	35
ER3013-623JM	A621JM	620	5	30	0.79	4.2	60	30
ER3013-683JM	A681JM	680	5, 10	30	0.79	4.2	60	30
ER3013-753JM	A751JM	750	5	30	0.79	3.8	65	29
ER3013-823JM	A821JM	820	5, 10	30	0.79	3.8	65	29
ER3013-913JM	A911JM	910	5	30	0.79	3.4	72	28
ER3013-104JM	A102JM	1000	5, 10	30	0.79	3.4	72	28