

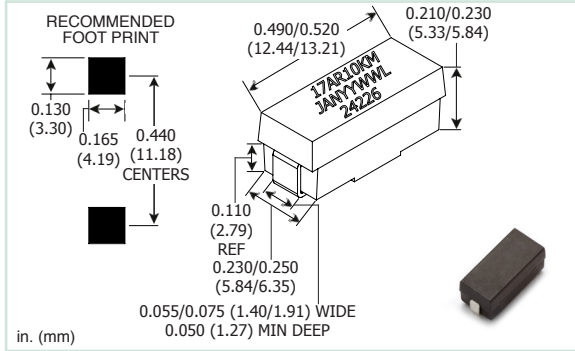
**ER5025S** TRADITIONAL Pb

**Established Reliability**

**M39010 Level-M Molded Shielded Inductor**

**Military Specifications:**

M39010/17, M39010/18



**NOTES:**

- **Operating Temperature Range:** -55°C to +105°C
- **Temperature Class:** Class A (105°C)
- **Current Rating** is based on a 15°C temperature rise at an ambient temperature of 90°C
- **DWV** 500 Vrms @ Sea Level  
200 Vrms @ 70,000 Feet
- **Weight:** 1.20 grams
- **Marking:** Laser Mark (see diagram above)
- Body color is black
- Magnetic Shielding: 3% Max Coupling
- When ordering, specify **Tolerance** and **Product Level:**

ER5025S-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:**

M39010/17AR10JM

Example of ordering by Military Part Number:  
ER5025S-100JM → M39010/17AR10JM

**TAPE AND REEL SPECS:**

Pcs./Reel maximum:	800
Pitch between parts:	12 mm
Inside tape spacing:	24 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-39010/17 PHENOLIC CORE &amp; IRON SLEEVE</b>								
ER5025S-100JM	AR10JM	0.10	5, 10	45	25	450	0.025	2245
ER5025S-110JM	AR11JM	0.11	5	45	25	425	0.034	1925
ER5025S-120JM	AR12JM	0.12	5, 10	45	25	425	0.034	1925
ER5025S-130JM	AR13JM	0.13	5	45	25	400	0.037	1845
ER5025S-150JM	AR15JM	0.15	5, 10	45	25	400	0.037	1845
ER5025S-160JM	AR16JM	0.16	5	45	25	350	0.047	1635
ER5025S-180JM	AR18JM	0.18	5, 10	45	25	350	0.047	1635
ER5025S-200JM	AR20JM	0.20	5	40	25	325	0.067	1370
ER5025S-220JM	AR22JM	0.22	5, 10	40	25	325	0.067	1370
ER5025S-240JM	AR24JM	0.24	5	40	25	300	0.110	1070
ER5025S-270JM	AR27JM	0.27	5, 10	40	25	300	0.110	1070
ER5025S-300JM	AR30JM	0.30	5	40	25	275	0.130	985
ER5025S-330JM	AR33JM	0.33	5, 10	40	25	275	0.130	985
ER5025S-360JM	AR36JM	0.36	5	40	25	250	0.180	835
ER5025S-390JM	AR39JM	0.39	5, 10	40	25	250	0.180	835
ER5025S-430JM	AR43JM	0.43	5	40	25	235	0.250	710
ER5025S-470JM	AR47JM	0.47	5, 10	40	25	235	0.250	710
ER5025S-510JM	AR51JM	0.51	5	40	25	210	0.330	615
ER5025S-560JM	AR56JM	0.56	5, 10	40	25	210	0.330	615
ER5025S-620JM	AR62JM	0.62	5	40	25	190	0.450	530
ER5025S-680JM	AR68JM	0.68	5, 10	40	25	190	0.450	530
ER5025S-750JM	AR75JM	0.72	5	40	25	180	0.590	460
ER5025S-820JM	AR82JM	0.82	5, 10	40	25	180	0.590	460

<b>MIL-PRF-39010/17 POWDERED IRON CORE &amp; IRON SLEEVE</b>								
ER5025S-910JM	AR91JM	0.91	5	40	25	119	0.070	1340
ER5025S-101JM	A1R0JM	1.0	5, 10	40	25	119	0.070	1340
ER5025S-111JM	A1R1JM	1.1	5	40	7.9	111	0.100	1120
ER5025S-121JM	A1R2JM	1.2	5, 10	40	7.9	111	0.100	1120
ER5025S-131JM	A1R3JM	1.3	5	40	7.9	98	0.120	1025
ER5025S-151JM	A1R5JM	1.5	5, 10	40	7.9	98	0.120	1025
ER5025S-161JM	A1R6JM	1.6	5	40	7.9	89	0.140	950
ER5025S-181JM	A1R8JM	1.8	5, 10	40	7.9	89	0.140	950
ER5025S-201JM	A2R0JM	2.0	5	40	7.9	85	0.190	815
ER5025S-221JM	A2R2JM	2.2	5, 10	40	7.9	85	0.190	815
ER5025S-241JM	A2R4JM	2.4	5	40	7.9	78	0.280	670
ER5025S-271JM	A2R7JM	2.7	5, 10	40	7.9	78	0.280	670
ER5025S-301JM	A3R0JM	3.0	5	40	7.9	72	0.350	600
ER5025S-331JM	A3R3JM	3.3	5, 10	40	7.9	72	0.350	600
ER5025S-361JM	A3R6JM	3.6	5	40	7.9	64	0.400	560
ER5025S-391JM	A3R9JM	3.9	5, 10	40	7.9	64	0.400	560
ER5025S-431JM	A4R3JM	4.3	5	40	7.9	60	0.550	480
ER5025S-471JM	A4R7JM	4.7	5, 10	40	7.9	60	0.550	480
ER5025S-511JM	A5R1JM	5.1	5	40	7.9	55	0.720	420
ER5025S-561JM	A5R6JM	5.6	5, 10	40	7.9	55	0.720	420
ER5025S-621JM	A6R2JM	6.2	5	40	7.9	47	1.02	350
ER5025S-681JM	A6R8JM	6.8	5, 10	40	7.9	47	1.02	350
ER5025S-751JM	A7R5JM	7.5	5	40	7.9	43	1.32	310
ER5025S-821JM	A8R2JM	8.2	5, 10	40	7.9	43	1.32	310
ER5025S-911JM	A9R1JM	9.1	5	40	7.9	39	1.62	280
ER5025S-102JM	A100JM	10	5, 10	40	7.9	39	1.62	280
ER5025S-112JM	A110JM	11	5	40	2.5	37	2.00	250
ER5025S-122JM	A120JM	12	5, 10	40	2.5	37	2.00	250

<b>MIL-PRF-39010/18 FERRITE CORE &amp; FERRITE SLEEVE</b>								
ER5025S-152JM	A150JM	15	5, 10	40	2.5	42	0.80	395
ER5025S-162JM	A160JM	16	5	40	2.5	38	0.89	375
ER5025S-182JM	A180JM	18	5, 10	40	2.5	38	0.89	375
ER5025S-202JM	A200JM	20	5	40	2.5	35	0.96	360
ER5025S-222JM	A220JM	22	5, 10	40	2.5	35	0.96	360
ER5025S-242JM	A240JM	24	5	40	2.5	32	1.19	325
ER5025S-272JM	A270JM	27	5, 10	40	2.5	32	1.19	325
ER5025S-302JM	A300JM	30	5	40	2.5	29	1.37	300
ER5025S-332JM	A330JM	33	5, 10	40	2.5	29	1.37	300
ER5025S-362JM	A360JM	36	5	40	2.5	25	1.93	255
ER5025S-392JM	A390JM	39	5, 10	40	2.5	25	1.93	255
ER5025S-432JM	A430JM	43	5	40	2.5	23	2.11	245
ER5025S-472JM	A470JM	47	5, 10	40	2.5	23	2.11	245
ER5025S-512JM	A510JM	51	5	40	2.5	21	2.23	235
ER5025S-562JM	A560JM	56	5, 10	40	2.5	21	2.23	235

## ER5025S TRADITIONAL Pb

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*M39010 Level-M Molded Shielded Inductor*

**Military Specifications:**

M39010/17, M39010/18

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-39010/18 FERRITE CORE &amp; FERRITE SLEEVE</b>								
ER5025S-622JM	A620JM	62	5	40	2.5	18	2.70	215
ER5025S-682JM	A680JM	68	5, 10	40	2.5	18	2.70	215
ER5025S-752JM	A750JM	75	5	40	2.5	10.5	2.44	225
ER5025S-822JM	A820JM	82	5, 10	40	2.5	10.5	2.44	225
ER5025S-912JM	A910JM	91	5	40	2.5	10.0	3.12	200
ER5025S-103JM	A101JM	100	5, 10	40	2.5	10.0	3.12	200
ER5025S-113JM	A111JM	110	5	55	0.79	9.7	3.60	185
ER5025S-123JM	A121JM	120	5, 10	55	0.79	9.7	3.60	185
ER5025S-133JM	A131JM	130	5	55	0.79	8.5	4.10	175
ER5025S-153JM	A151JM	150	5, 10	55	0.79	8.5	4.10	175
ER5025S-163JM	A161JM	160	5	55	0.79	8.0	4.40	170
ER5025S-183JM	A181JM	180	5, 10	55	0.79	8.0	4.40	170
ER5025S-203JM	A201JM	200	5	55	0.79	7.5	5.00	160
ER5025S-223JM	A221JM	220	5, 10	55	0.79	7.5	5.00	160
ER5025S-243JM	A241JM	240	5	55	0.79	7.0	5.80	145
ER5025S-273JM	A271JM	270	5, 10	55	0.79	7.0	5.80	145
ER5025S-303JM	A301JM	300	5	55	0.79	6.5	6.40	140
ER5025S-333JM	A331JM	330	5, 10	55	0.79	6.5	6.40	140
ER5025S-363JM	A361JM	360	5	60	0.79	6.2	7.40	130
ER5025S-393JM	A391JM	390	5, 10	60	0.79	6.2	7.40	130
ER5025S-433JM	A431JM	430	5	60	0.79	5.7	9.50	115
ER5025S-473JM	A471JM	470	5, 10	60	0.79	5.7	9.50	115
ER5025S-513JM	A511JM	510	5	60	0.79	4.7	10.5	110
ER5025S-563JM	A561JM	560	5, 10	60	0.79	4.7	10.5	110
ER5025S-623JM	A621JM	620	5	60	0.79	4.5	11.8	105
ER5025S-683JM	A681JM	680	5, 10	60	0.79	4.5	11.8	105
ER5025S-753JM	A751JM	750	5	60	0.79	4.2	13.0	100
ER5025S-823JM	A821JM	820	5, 10	60	0.79	4.2	13.0	100
ER5025S-913JM	A911JM	910	5	60	0.79	3.8	17.5	85
ER5025S-104JM	A102JM	1000	5, 10	60	0.79	3.8	17.5	85
ER5025S-114JM	A112JM	1100	5	45	0.25	3.0	22.1	75
ER5025S-124JM	A122JM	1200	5, 10	45	0.25	3.0	22.1	75
ER5025S-134JM	A132JM	1300	5	45	0.25	2.8	26.5	70
ER5025S-154JM	A152JM	1500	5, 10	45	0.25	2.8	26.5	70
ER5025S-164JM	A162JM	1600	5	45	0.25	2.6	29.9	65
ER5025S-184JM	A182JM	1800	5, 10	45	0.25	2.6	29.9	65
ER5025S-204JM	A202JM	2000	5	45	0.25	2.4	33.8	60
ER5025S-224JM	A222JM	2200	5, 10	45	0.25	2.4	33.8	60
ER5025S-244JM	A242JM	2400	5	45	0.25	2.2	47.3	50
ER5025S-274JM	A272JM	2700	5, 10	45	0.25	2.2	47.3	50
ER5025S-304JM	A302JM	3000	5	45	0.25	2.0	53.0	45
ER5025S-334JM	A332JM	3300	5, 10	45	0.25	2.0	53.0	45
ER5025S-364JM	A362JM	3600	5	45	0.25	1.9	73.8	40
ER5025S-394JM	A392JM	3900	5, 10	45	0.25	1.9	73.8	40
ER5025S-434JM	A432JM	4300	5	45	0.25	1.7	81.6	38
ER5025S-474JM	A472JM	4700	5, 10	45	0.25	1.7	81.6	38
ER5025S-514JM	A512JM	5100	5	44	0.25	1.6	98.9	36
ER5025S-564JM	A562JM	5600	5, 10	44	0.25	1.6	98.9	36
ER5025S-624JM	A622JM	6200	5	40	0.25	1.4	111	34
ER5025S-684JM	A682JM	6800	5, 10	40	0.25	1.4	111	34
ER5025S-754JM	A752JM	7500	5	40	0.25	1.2	119	32
ER5025S-824JM	A822JM	8200	5, 10	40	0.25	1.2	119	32
ER5025S-914JM	A912JM	9100	5	40	0.25	1.0	139	30
ER5025S-105JM	A103JM	10000	5, 10	40	0.25	1.0	139	30