

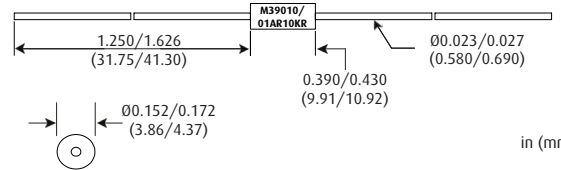
**ER17S SERIES**

Established Reliability

**M39010 Level-R Molded Shielded Inductor**

Military Specifications:

M39010/01, M39010/02, M39010/03



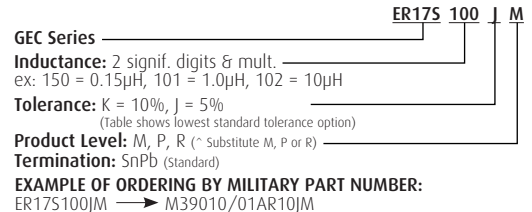
PART NUMBER	MIL DASH NO.	L μH	IND TOL %	Q MIN	TEST FREQ MHz	SRF MHz MIN	DCR Ω MAX	CURRENT RATING mA DC
<b>M39010/01 PHENOLIC CORE / IRON SLEEVE</b>								
ER17S100J^	AR10J^	0.10	5, 10	50	25	250	0.025	1790
ER17S110J^	AR11J^	0.11	5	50	25	250	0.034	1530
ER17S120J^	AR12J^	0.12	5, 10	50	25	250	0.034	1530
ER17S130J^	AR13J^	0.13	5	50	25	250	0.037	1470
ER17S150J^	AR15J^	0.15	5, 10	50	25	250	0.037	1470
ER17S160J^	AR16J^	0.16	5	50	25	250	0.047	1300
ER17S180J^	AR18J^	0.18	5, 10	50	25	250	0.047	1300
ER17S200J^	AR20J^	0.20	5	49	25	250	0.067	1100
ER17S220J^	AR22J^	0.22	5, 10	49	25	250	0.067	1100
ER17S240J^	AR24J^	0.24	5	47	25	250	0.110	853
ER17S270J^	AR27J^	0.27	5, 10	47	25	250	0.110	853
ER17S300J^	AR30J^	0.30	5	46	25	250	0.130	780
ER17S330J^	AR33J^	0.33	5, 10	46	25	250	0.130	780
ER17S360J^	AR36J^	0.36	5	44	25	250	0.180	670
ER17S390J^	AR39J^	0.39	5, 10	44	25	250	0.180	670
ER17S430J^	AR43J^	0.43	5	44	25	235	0.250	565
ER17S470J^	AR47J^	0.47	5, 10	44	25	235	0.250	565
ER17S510J^	AR51J^	0.51	5	43	25	210	0.330	490
ER17S560J^	AR56J^	0.56	5, 10	43	25	210	0.330	490
ER17S620J^	AR62J^	0.62	5	42	25	190	0.450	420
ER17S680J^	AR68J^	0.68	5, 10	42	25	190	0.450	420
ER17S750J^	AR75J^	0.75	5	40	25	180	0.590	370
ER17S820J^	AR82J^	0.82	5, 10	40	25	180	0.590	370
<b>M39010/02 POWDERED IRON CORE / IRON SLEEVE</b>								
ER17S910J^	AR91J^	0.91	5	44	25	140	0.070	1070
ER17S101J^	A1R0J^	1.0	5, 10	44	25	140	0.070	1070
ER17S111J^	A1R1J^	1.1	5	44	7.9	130	0.100	895
ER17S121J^	A1R2J^	1.2	5, 10	44	7.9	130	0.100	895
ER17S131J^	A1R3J^	1.3	5	44	7.9	115	0.120	815
ER17S151J^	A1R5J^	1.5	5, 10	44	7.9	115	0.120	815
ER17S161J^	A1R6J^	1.6	5	44	7.9	105	0.140	755
ER17S181J^	A1R8J^	1.8	5, 10	44	7.9	105	0.140	755
ER17S201J^	A2R0J^	2.0	5	44	7.9	100	0.190	650
ER17S221J^	A2R2J^	2.2	5, 10	44	7.9	100	0.190	650
ER17S241J^	A2R4J^	2.4	5	44	7.9	92	0.280	535
ER17S271J^	A2R7J^	2.7	5, 10	44	7.9	92	0.280	535
ER17S301J^	A3R0J^	3.0	5	44	7.9	85	0.350	480
ER17S331J^	A3R3J^	3.3	5, 10	44	7.9	85	0.350	480
ER17S361J^	A3R6J^	3.6	5	44	7.9	75	0.400	450
ER17S391J^	A3R9J^	3.9	5, 10	44	7.9	75	0.400	450
ER17S431J^	A4R3J^	4.3	5	44	7.9	70	0.550	380
ER17S471J^	A4R7J^	4.7	5, 10	44	7.9	70	0.550	380
ER17S511J^	A5R1J^	5.1	5	44	7.9	65	0.720	335
ER17S561J^	A5R6J^	5.6	5, 10	44	7.9	65	0.720	335
ER17S621J^	A6R2J^	6.2	5	44	7.9	55	1.02	280
ER17S681J^	A6R8J^	6.8	5, 10	50	7.9	55	1.02	280
ER17S751J^	A7R5J^	7.5	5	50	7.9	50	1.32	245
ER17S821J^	A8R2J^	8.2	5, 10	50	7.9	50	1.32	245
ER17S911J^	A9R1J^	9.1	5	50	7.9	46	1.62	220
ER17S102J^	A100J^	10	5, 10	50	7.9	46	1.62	220
ER17S112J^	A110J^	11	5	50	2.5	44	2.00	200
ER17S122J^	A120J^	12	5, 10	50	2.5	44	2.00	200
<b>M39010/03 FERRITE CORE / FERRITE SLEEVE</b>								
ER17S152J^	A150J^	15	5, 10	45	2.5	49	0.800	315
ER17S162J^	A160J^	16	5	45	2.5	45	0.890	300
ER17S182J^	A180J^	18	5, 10	45	2.5	45	0.890	300
ER17S202J^	A200J^	20	5	45	2.5	41	0.960	290
ER17S222J^	A220J^	22	5, 10	45	2.5	41	0.960	290
ER17S242J^	A240J^	24	5	45	2.5	38	1.19	260
ER17S272J^	A270J^	27	5, 10	45	2.5	38	1.19	260
ER17S302J^	A300J^	30	5	45	2.5	34	1.37	240
ER17S332J^	A330J^	33	5, 10	45	2.5	34	1.37	240
ER17S362J^	A360J^	36	5	45	2.5	29	1.93	205
ER17S392J^	A390J^	39	5, 10	50	2.5	29	1.93	205
ER17S432J^	A430J^	43	5	50	2.5	27	2.11	195
ER17S472J^	A470J^	47	5, 10	50	2.5	27	2.11	195
ER17S512J^	A510J^	51	5	50	2.5	25	2.23	190
ER17S562J^	A560J^	56	5, 10	50	2.5	25	2.23	190

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>M39010/03 FERRITE CORE / FERRITE SLEEVE (continued)</b>								
ER17S622J^	A620J^	62	5	50	2.5	21	2.44	180
ER17S682J^	A680J^	68	5, 10	50	2.5	21	2.44	180
ER17S752J^	A750J^	75	5	50	2.5	10.5	2.70	170
ER17S822J^	A820J^	82	5, 10	50	2.5	10.5	2.70	170
ER17S912J^	A910J^	91	5	50	2.5	10.0	3.12	160
ER17S103J^	A101J^	100	5, 10	50	2.5	10.0	3.12	160
ER17S113J^	A111J^	110	5	50	0.79	9.7	3.60	150
ER17S123J^	A121J^	120	5, 10	55	0.79	9.7	3.60	150
ER17S133J^	A131J^	130	5	55	0.79	8.5	4.10	140
ER17S153J^	A151J^	150	5, 10	55	0.79	8.5	4.10	140
ER17S163J^	A161J^	160	5	55	0.79	8.0	4.40	135
ER17S183J^	A181J^	180	5, 10	55	0.79	8.0	4.40	135
ER17S203J^	A201J^	200	5	55	0.79	7.5	5.00	125
ER17S223J^	A221J^	220	5, 10	55	0.79	7.5	5.00	125
ER17S243J^	A241J^	240	5	55	0.79	7.0	5.80	115
ER17S273J^	A271J^	270	5, 10	55	0.79	7.0	5.80	115
ER17S303J^	A301J^	300	5	55	0.79	6.5	6.40	110
ER17S333J^	A331J^	330	5, 10	55	0.79	6.5	6.40	110
ER17S363J^	A361J^	360	5	55	0.79	6.2	7.40	105
ER17S393J^	A391J^	390	5, 10	60	0.79	6.2	7.40	105
ER17S433J^	A431J^	430	5	60	0.79	5.7	9.50	92
ER17S473J^	A471J^	470	5, 10	60	0.79	5.7	9.50	92
ER17S513J^	A511J^	510	5	60	0.79	4.7	10.5	90
ER17S563J^	A561J^	560	5, 10	60	0.79	4.7	10.5	90
ER17S623J^	A621J^	620	5	60	0.79	4.5	11.8	80
ER17S683J^	A681J^	680	5, 10	60	0.79	4.5	11.8	80
ER17S753J^	A751J^	750	5	60	0.79	4.2	13.0	80
ER17S823J^	A821J^	820	5, 10	60	0.79	4.2	13.0	80
ER17S913J^	A911J^	910	5	60	0.79	3.8	17.5	70
ER17S104J^	A102J^	1000	5, 10	60	0.79	3.8	17.5	70

**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** 1000 Vrms @ Sea Level  
200 Vrms @ 70,000 Feet
- **Weight Max:**  
0.85 grams for Phenolic  
1.13 grams for Powdered Iron & Ferrite
- **Marking:** Laser Mark, 2 sided (see diagram above)
- **Body Color:** Black
- **Magnetic Shielding:** 3% Max Coupling

**PART NUMBER DERIVATION**



**TAPE AND REEL SPECS:**

Pieces/reel maximum:	2500
Pitch between parts:	0.200 in.
Tape width:	2.062 in.
Reel diameter:	12 in.
Class:	1