

ER17S Established Reliability

Wirewound, Shielded, Molded, Level R Qualified, MIL-PRF-39010

M39010 /01 Phenolic Core /02 Powdered Iron Core /03 Ferrite Core



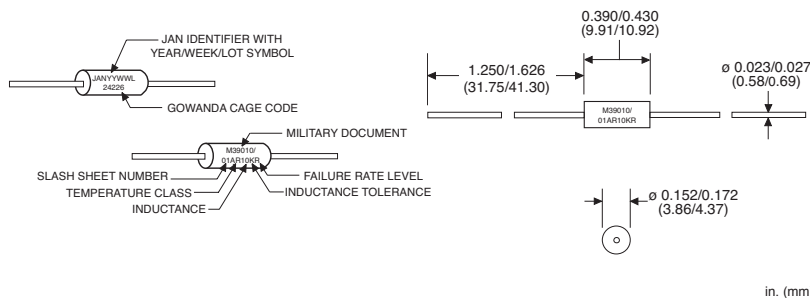
PART NUMBER	MIL PART NUMBER	L μ H	Q MIN	TEST FREQ MHz	SRF MHz MIN	DCR OHMS MAX	CURRENT RATING mA DC	INDUCTANCE TOLERANCE
MIL-PRF-39010/01 PHENOLIC CORE & IRON SLEEVE								
ER17S100*^	M39010/01AR10*^	0.10	50	25	250	0.025	1790	5, 10
ER17S110J^	M39010/01AR11J^	0.11	50	25	250	0.034	1530	5
ER17S120*^	M39010/01AR12*^	0.12	50	25	250	0.034	1530	5, 10
ER17S130J^	M39010/01AR13J^	0.13	50	25	250	0.037	1470	5
ER17S150*^	M39010/01AR15*^	0.15	50	25	250	0.037	1470	5, 10
ER17S160J^	M39010/01AR16J^	0.16	50	25	250	0.047	1300	5
ER17S180*^	M39010/01AR18*^	0.18	50	25	250	0.047	1300	5, 10
ER17S200J^	M39010/01AR20J^	0.20	49	25	250	0.067	1100	5
ER17S220*^	M39010/01AR22*^	0.22	49	25	250	0.067	1100	5, 10
ER17S240J^	M39010/01AR24J^	0.24	47	25	250	0.110	853	5
ER17S270*^	M39010/01AR27*^	0.27	47	25	250	0.110	853	5, 10
ER17S300J^	M39010/01AR30J^	0.30	46	25	250	0.130	780	5
ER17S330*^	M39010/01AR33*^	0.33	46	25	250	0.130	780	5, 10
ER17S360J^	M39010/01AR36J^	0.36	44	25	250	0.180	670	5
ER17S390*^	M39010/01AR39*^	0.39	44	25	250	0.180	670	5, 10
ER17S430J^	M39010/01AR43J^	0.43	44	25	235	0.250	565	5
ER17S470*^	M39010/01AR47*^	0.47	44	25	235	0.250	565	5, 10
ER17S510J^	M39010/01AR51J^	0.51	43	25	210	0.330	490	5
ER17S560*^	M39010/01AR56*^	0.56	43	25	210	0.330	490	5, 10
ER17S620J^	M39010/01AR62J^	0.62	42	25	190	0.450	420	5
ER17S680*^	M39010/01AR68*^	0.68	42	25	190	0.450	420	5, 10
ER17S750J^	M39010/01AR75J^	0.75	40	25	180	0.590	370	5
ER17S820*^	M39010/01AR82*^	0.82	40	25	180	0.590	370	5, 10

* Substitute "J" for 5% tolerance or "K" for 10% tolerance

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^ Substitute R, P, or M for failure rate level

2 SIDED LASER MARKING



NOTES:

- Operating Temperature Range: -55°C to +105°C
- Current Rating is based on a 15°C temperature rise at an ambient temperature of 90°C
- Temperature Class: Class A (105°C)
- DWV 1000 Vrms @ Sea Level
200 Vrms @ 70,000 Feet
- Weight maximum:
 - 0.85 grams (0.03 ounces) for /01 (Phenolic)
 - 1.13 grams (0.04 ounces) for /02 & /03 (Powdered Iron & Ferrite)
- Magnetic Shielding: 3% Max. Coupling
- Body color is Black
- This series is qualified to Level R but it is also available for Level M and Level P applications. See ^ note below table.

TAPE AND REEL SPECS:

Pcs./Reel maximum:	2500
Pitch between parts:	0.200 in.
Inside tape spacing:	2.062 in.
Class:	1

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M39010 /01 Phenolic Core /02 Powdered Iron Core /03 Ferrite Core



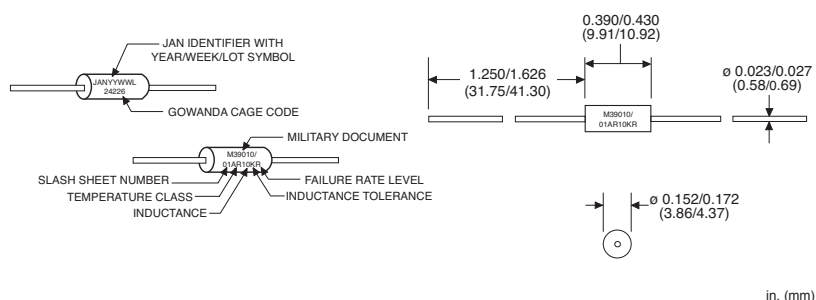
PART NUMBER	MIL PART NUMBER	L μ H	Q MIN	TEST FREQ MHz	SRF MHz MIN	DCR OHMS MAX	CURRENT RATING mA DC	INDUCTANCE TOLERANCE
MIL-PRF-39010/02 POWDERED IRON CORE & IRON SLEEVE								
ER17S910J [^]	M39010/02AR91J [^]	0.91	44	25	140	0.070	1070	5
ER17S101 [^]	M39010/02A1R0 [^]	1.0	44	25	140	0.070	1070	5, 10
ER17S111J [^]	M39010/02A1R1J [^]	1.1	44	7.9	130	0.100	895	5
ER17S121 [^]	M39010/02A1R2 [^]	1.2	44	7.9	130	0.100	895	5, 10
ER17S131J [^]	M39010/02A1R3J [^]	1.3	44	7.9	115	0.120	815	5
ER17S151 [^]	M39010/02A1R5 [^]	1.5	44	7.9	115	0.120	815	5, 10
ER17S161J [^]	M39010/02A1R6J [^]	1.6	44	7.9	105	0.140	755	5
ER17S181 [^]	M39010/02A1R8 [^]	1.8	44	7.9	105	0.140	755	5, 10
ER17S201J [^]	M39010/02A2R0J [^]	2.0	44	7.9	100	0.190	650	5
ER17S221 [^]	M39010/02A2R2 [^]	2.2	44	7.9	100	0.190	650	5, 10
ER17S241J [^]	M39010/02A2R4J [^]	2.4	44	7.9	92	0.280	535	5
ER17S271 [^]	M39010/02A2R7 [^]	2.7	44	7.9	92	0.280	535	5, 10
ER17S301J [^]	M39010/02A3R0J [^]	3.0	44	7.9	85	0.350	480	5
ER17S331 [^]	M39010/02A3R3 [^]	3.3	44	7.9	85	0.350	480	5, 10
ER17S361J [^]	M39010/02A3R6J [^]	3.6	44	7.9	75	0.400	450	5
ER17S391 [^]	M39010/02A3R9 [^]	3.9	44	7.9	75	0.400	450	5, 10
ER17S431J [^]	M39010/02A4R3J [^]	4.3	44	7.9	70	0.550	380	5
ER17S471 [^]	M39010/02A4R7 [^]	4.7	44	7.9	70	0.550	380	5, 10
ER17S511J [^]	M39010/02A5R1J [^]	5.1	44	7.9	65	0.720	335	5
ER17S561 [^]	M39010/02A5R6 [^]	5.6	44	7.9	65	0.720	335	5, 10
ER17S621J [^]	M39010/02A6R2J [^]	6.2	44	7.9	55	1.02	280	5
ER17S681 [^]	M39010/02A6R8 [^]	6.8	50	7.9	55	1.02	280	5, 10
ER17S751J [^]	M39010/02A7R5J [^]	7.5	50	7.9	50	1.32	245	5
ER17S821 [^]	M39010/02A8R2 [^]	8.2	50	7.9	50	1.32	245	5, 10
ER17S911J [^]	M39010/02A9R1J [^]	9.1	50	7.9	46	1.62	220	5
ER17S102 [^]	M39010/02A100 [^]	10	50	7.9	46	1.62	220	5, 10
ER17S112J [^]	M39010/02A110J [^]	11	50	2.5	44	2.00	200	5
ER17S122 [^]	M39010/02A120 [^]	12	50	2.5	44	2.00	200	5, 10

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2 SIDED LASER MARKING



NOTES:

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Class A (105°C)
- DWV 1000 Vrms @ Sea Level
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- Magnetic Shielding: 3% Max. Coupling
- Body color is Black
- This series is qualified to Level R but it is also available for Level M and Level P applications. See [^] note below table.

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M39010 /01 Phenolic Core /02 Powdered Iron Core /03 Ferrite Core



PART NUMBER	MIL PART NUMBER	L μ H	Q MIN	TEST FREQ MHz	SRF MHz MIN	DCR OHMS MAX	CURRENT RATING mA DC	INDUCTANCE TOLERANCE
MIL-PRF-39010/03 FERRITE CORE & FERRITE SLEEVE								
ER17S152* [^]	M39010/03A150* [^]	15	45	2.5	49	0.80	315	5, 10
ER17S162J [^]	M39010/03A160J [^]	16	45	2.5	45	0.89	300	5
ER17S182* [^]	M39010/03A180* [^]	18	45	2.5	45	0.89	300	5, 10
ER17S202J [^]	M39010/03A200J [^]	20	45	2.5	41	0.96	290	5
ER17S222* [^]	M39010/03A220* [^]	22	45	2.5	41	0.96	290	5, 10
ER17S242J [^]	M39010/03A240J [^]	24	45	2.5	38	1.19	260	5
ER17S272* [^]	M39010/03A270* [^]	27	45	2.5	38	1.19	260	5, 10
ER17S302J [^]	M39010/03A300J [^]	30	45	2.5	34	1.37	240	5
ER17S332* [^]	M39010/03A330* [^]	33	45	2.5	34	1.37	240	5, 10
ER17S362J [^]	M39010/03A360J [^]	36	45	2.5	29	1.93	205	5
ER17S392* [^]	M39010/03A390* [^]	39	50	2.5	29	1.93	205	5, 10
ER17S432J [^]	M39010/03A430J [^]	43	50	2.5	27	2.11	195	5
ER17S472* [^]	M39010/03A470* [^]	47	50	2.5	27	2.11	195	5, 10
ER17S512J [^]	M39010/03A510J [^]	51	50	2.5	25	2.23	190	5
ER17S562* [^]	M39010/03A560* [^]	56	50	2.5	25	2.23	190	5, 10
ER17S622J [^]	M39010/03A620J [^]	62	50	2.5	21	2.44	180	5
ER17S682* [^]	M39010/03A680* [^]	68	50	2.5	21	2.44	180	5, 10
ER17S752J [^]	M39010/03A750J [^]	75	50	2.5	10.5	2.70	170	5
ER17S822* [^]	M39010/03A820* [^]	82	50	2.5	10.5	2.70	170	5, 10
ER17S912J [^]	M39010/03A910J [^]	91	50	2.5	10.0	3.12	160	5
ER17S103* [^]	M39010/03A101* [^]	100	50	2.5	10.0	3.12	160	5, 10
ER17S113J [^]	M39010/03A111J [^]	110	50	0.79	9.7	3.60	150	5
ER17S123* [^]	M39010/03A121* [^]	120	55	0.79	9.7	3.60	150	5, 10
ER17S133J [^]	M39010/03A131J [^]	130	55	0.79	8.5	4.10	140	5
ER17S153* [^]	M39010/03A151* [^]	150	55	0.79	8.5	4.10	140	5, 10
ER17S163J [^]	M39010/03A161J [^]	160	55	0.79	8.0	4.40	135	5
ER17S183* [^]	M39010/03A181* [^]	180	55	0.79	8.0	4.40	135	5, 10
ER17S203J [^]	M39010/03A201J [^]	200	55	0.79	7.5	5.00	125	5
ER17S223* [^]	M39010/03A221* [^]	220	55	0.79	7.5	5.00	125	5, 10
ER17S243J [^]	M39010/03A241J [^]	240	55	0.79	7.0	5.80	115	5
ER17S273* [^]	M39010/03A271* [^]	270	55	0.79	7.0	5.80	115	5, 10
ER17S303J [^]	M39010/03A301J [^]	300	55	0.79	6.5	6.40	110	5
ER17S333* [^]	M39010/03A331* [^]	330	55	0.79	6.5	6.40	110	5, 10
ER17S363J [^]	M39010/03A361J [^]	360	55	0.79	6.2	7.40	105	5
ER17S393* [^]	M39010/03A391* [^]	390	60	0.79	6.2	7.40	105	5, 10
ER17S433J [^]	M39010/03A431J [^]	430	60	0.79	5.7	9.50	92	5
ER17S473* [^]	M39010/03A471* [^]	470	60	0.79	5.7	9.50	92	5, 10
ER17S513J [^]	M39010/03A511J [^]	510	60	0.79	4.7	10.5	90	5
ER17S563* [^]	M39010/03A561* [^]	560	60	0.79	4.7	10.5	90	5, 10
ER17S623J [^]	M39010/03A621J [^]	620	60	0.79	4.5	11.8	80	5
ER17S683* [^]	M39010/03A681* [^]	680	60	0.79	4.5	11.8	80	5, 10
ER17S753J [^]	M39010/03A751J [^]	750	60	0.79	4.2	13.0	80	5
ER17S823* [^]	M39010/03A821* [^]	820	60	0.79	4.2	13.0	80	5, 10
ER17S913J [^]	M39010/03A911J [^]	910	60	0.79	3.8	17.5	70	5
ER17S104* [^]	M39010/03A102* [^]	1000	60	0.79	3.8	17.5	70	5, 10

* Substitute "J" for 5% tolerance or "K" for 10% tolerance

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NOTE:

Please refer to prior page(s) for diagram, notes and packaging information