ER17S

TRADITIONAL Pb

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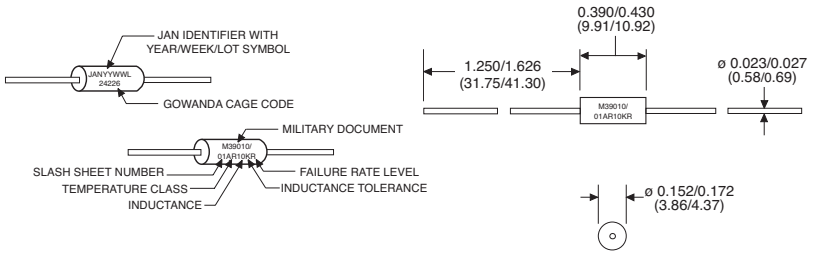
^ Substitute R, P, or M for failure rate level

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

One Magnetics Pkwy, Gowanda, NY 14070 • (t) 1-716-532-2234 • (f) 1-716-532-2702 • sales@gowanda.com
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ER17S TRADITIONAL Pb *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 µH	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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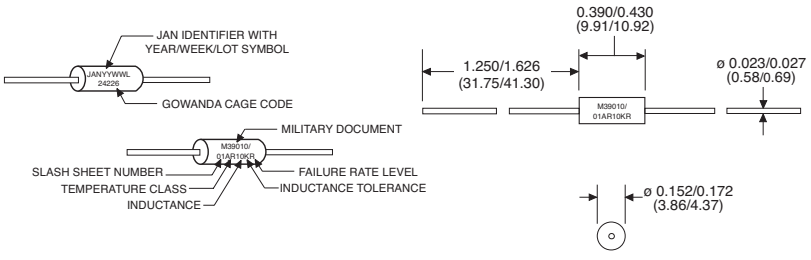
2 SIDED LASER MARKING



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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 µH	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

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