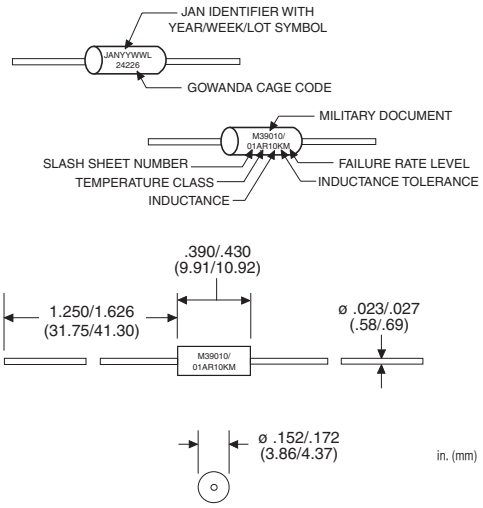
ER17S *Molded Shielded RF Inductors - Military Approved*

MIL-PRF-39010/01/02/03

2 SIDED LASER MARKING



PART NUMBER	MIL PART NUMBER	L µH	TOLERANCE	Q MIN	TEST FREQ. MHz	SRF MHz MIN.	DCR OHMS MAX.	CURRENT RATING mA DC
MIL-PRF-39010/01 PHENOLIC CORE & IRON SLEEVE								
ER17S100*M	M39010/01AR10*M	0.10	5, 10	50	25	250	.025	1790
ER17S110JM	M39010/01AR11JM	0.11	5	50	25	250	.034	1530
ER17S120*M	M39010/01AR12*M	0.12	5, 10	50	25	250	.034	1530
ER17S130JM	M39010/01AR13JM	0.13	5	50	25	250	.037	1470
ER17S150*M	M39010/01AR15*M	0.15	5, 10	50	25	250	.037	1470
ER17S160JM	M39010/01AR16JM	0.16	5	50	25	250	.047	1300
ER17S180*M	M39010/01AR18*M	0.18	5, 10	50	25	250	.047	1300
ER17S200JM	M39010/01AR20JM	0.20	5	49	25	250	.067	1100
ER17S220*M	M39010/01AR22*M	0.22	5, 10	49	25	250	.067	1100
ER17S240JM	M39010/01AR24JM	0.24	5	47	25	250	.110	853
ER17S270*M	M39010/01AR27*M	0.27	5, 10	47	25	250	.110	853
ER17S300JM	M39010/01AR30JM	0.30	5	46	25	250	.130	780
ER17S330*M	M39010/01AR33*M	0.33	5, 10	46	25	250	.130	780
ER17S360JM	M39010/01AR36JM	0.36	5	44	25	250	.180	670
ER17S390*M	M39010/01AR39*M	0.39	5, 10	44	25	250	.180	670
ER17S430JM	M39010/01AR43JM	0.43	5	44	25	235	.250	565
ER17S470*M	M39010/01AR47*M	0.47	5, 10	44	25	235	.250	565
ER17S510JM	M39010/01AR51JM	0.51	5	43	25	210	.330	490
ER17S560*M	M39010/01AR56*M	0.56	5, 10	43	25	210	.330	490
ER17S620JM	M39010/01AR62JM	0.62	5	42	25	190	.450	420
ER17S680*M	M39010/01AR68*M	0.68	5, 10	42	25	190	.450	420
ER17S750JM	M39010/01AR75JM	0.75	5	40	25	180	.590	370
ER17S820*M	M39010/01AR82*M	0.82	5,10	40	25	180	.590	370
MIL-PRF-39010/02 IRON CORE & IRON SLEEVE								
ER17S910JM	M39010/02AR91JM	0.91	5	44	25	140	.070	1070
ER17S101*M	M39010/02A1R0*M	1.0	5, 10	44	25	140	.070	1070
ER17S111JM	M39010/02A1R1JM	1.1	5	44	7.9	130	.100	895
ER17S121*M	M39010/02A1R2*M	1.2	5,10	44	7.9	130	.100	895
ER17S131JM	M39010/02A1R3JM	1.3	5	44	7.9	115	.120	815
ER17S151*M	M39010/02A1R5*M	1.5	5,10	44	7.9	115	.120	815
ER17S161JM	M39010/02A1R6JM	1.6	5	44	7.9	105	.140	755
ER17S181*M	M39010/02A1R8*M	1.8	5,10	44	7.9	105	.140	755
ER17S201JM	M39010/02A2R0JM	2.0	5	44	7.9	100	.190	650
ER17S221*M	M39010/02A2R2*M	2.2	5,10	44	7.9	100	.190	650
ER17S241JM	M39010/02A2R4JM	2.4	5	44	7.9	92	.280	535
ER17S271*M	M39010/02A2R7*M	2.7	5,10	44	7.9	92	.280	535
ER17S301JM	M39010/02A3R0JM	3.0	5	44	7.9	85	.350	480
ER17S331*M	M39010/02A3R3*M	3.3	5,10	44	7.9	85	.350	480
ER17S361JM	M39010/02A3R6JM	3.6	5	44	7.9	75	.400	450
ER17S391*M	M39010/02A3R9*M	3.9	5,10	44	7.9	75	.400	450
ER17S431JM	M39010/02A4R3JM	4.3	5	44	7.9	70	.550	380
ER17S471*M	M39010/02A4R7*M	4.7	5,10	44	7.9	70	.550	380
ER17S511JM	M39010/02A5R1JM	5.1	5	44	7.9	65	.720	335
ER17S561*M	M39010/02A5R6*M	5.6	5,10	44	7.9	65	.720	335
ER17S621JM	M39010/02A6R2JM	6.2	5	44	7.9	55	1.02	280
ER17S681*M	M39010/02A6R8*M	6.8	5,10	50	7.9	55	1.02	280
ER17S751JM	M39010/02A7R5JM	7.5	5	50	7.9	50	1.32	245
ER17S821*M	M39010/02A8R2*M	8.2	5,10	50	7.9	50	1.32	245
ER17S911JM	M39010/02A9R1JM	9.1	5	50	7.9	46	1.62	220
ER17S102*M	M39010/02A100*M	10	5,10	50	7.9	46	1.62	220
ER17S112JM	M39010/02A110JM	11	5	50	2.5	44	2.00	200
ER17S122*M	M39010/02A120*M	12	5,10	50	2.5	44	2.00	200

* Substitute “J” for 5% tolerance or “K” for 10% tolerance

NOTES:

- Operating Temperature Range: -55°C to +105°C
- Class A (105°C)
- Current Rating is @ a 90°C Ambient and 15°C Rise
- Weight Max. 0.03oz (0.85 gm) for /01
  0.04oz (1.13 gm) for /02 & /03
- DWV 1000 Vrms @ Sea Level
  200 Vrms @ 70,000 Feet
- Body color is Black
- Magnetic Shielding: 3% Max. Coupling

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One Magnetics Pkwy, Gowanda, NY 14070 • (t) 716-532-2234 • (f) 716-532-2702 • sales@gowanda.com

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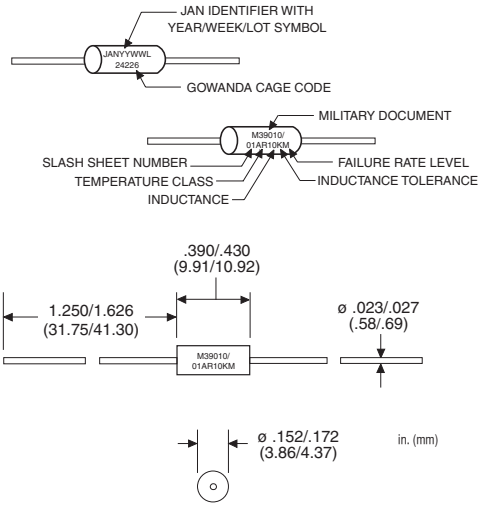
ER17S *Molded Shielded RF Inductors - Military Approved*

MIL-PRF-39010/01/02/03

PART NUMBER	MIL PART NUMBER	L µH	TOLERANCE	Q MIN	TEST FREQ. MHz	SRF MHz MIN.	DCR OHMS MAX.	CURRENT RATING mA DC	INCREMENTAL CURRENT mA DC
MIL-PRF-39010/03 FERRITE CORE & FERRITE SLEEVE									
ER17S152*M	M39010/03A150*M	15	5, 10	45	2.5	49	.80	315	250
ER17S162JM	M39010/03A160JM	16	5	45	2.5	45	.89	300	235
ER17S182*M	M39010/03A180*M	18	5, 10	45	2.5	45	.89	300	235
ER17S202JM	M39010/03A200JM	20	5	45	2.5	41	.96	290	220
ER17S222*M	M39010/03A220*M	22	5, 10	45	2.5	41	.96	290	220
ER17S242JM	M39010/03A240JM	24	5	45	2.5	38	1.19	260	200
ER17S272*M	M39010/03A270*M	27	5, 10	45	2.5	38	1.19	260	200
ER17S302JM	M39010/03A300JM	30	5	45	2.5	34	1.37	240	190
ER17S332*M	M39010/03A330*M	33	5, 10	45	2.5	34	1.37	240	190
ER17S362JM	M39010/03A360JM	36	5	45	2.5	29	1.93	205	180
ER17S392*M	M39010/03A390*M	39	5, 10	50	2.5	29	1.93	205	180
ER17S432JM	M39010/03A430JM	43	5	50	2.5	27	2.11	195	175
ER17S472*M	M39010/03A470*M	47	5, 10	50	2.5	27	2.11	195	175
ER17S512JM	M39010/03A510JM	51	5	50	2.5	25	2.23	190	160
ER17S562*M	M39010/03A560*M	56	5, 10	50	2.5	25	2.23	190	160
ER17S622JM	M39010/03A620JM	62	5	50	2.5	21	2.44	180	150
ER17S682*M	M39010/03A680*M	68	5, 10	50	2.5	21	2.44	180	150
ER17S752JM	M39010/03A750JM	75	5	50	2.5	10.5	2.70	170	140
ER17S822*M	M39010/03A820*M	82	5, 10	50	2.5	10.5	2.70	170	140
ER17S912JM	M39010/03A910JM	91	5	50	2.5	10.0	3.12	160	120
ER17S103*M	M39010/03A101*M	100	5, 10	50	2.5	10.0	3.12	160	120
ER17S113JM	M39010/03A111JM	110	5	50	.79	9.7	3.60	150	95
ER17S123*M	M39010/03A121*M	120	5, 10	55	.79	9.7	3.60	150	95
ER17S133JM	M39010/03A131JM	130	5	55	.79	8.5	4.10	140	90
ER17S153*M	M39010/03A151*M	150	5, 10	55	.79	8.5	4.10	140	90
ER17S163JM	M39010/03A161JM	160	5	55	.79	8.0	4.40	135	85
ER17S183*M	M39010/03A181*M	180	5, 10	55	.79	8.0	4.40	135	85
ER17S203JM	M39010/03A201JM	200	5	55	.79	7.5	5.00	125	80
ER17S223*M	M39010/03A221*M	220	5, 10	55	.79	7.5	5.00	125	80
ER17S243JM	M39010/03A241JM	240	5	55	.79	7.0	5.80	115	70
ER17S273*M	M39010/03A271*M	270	5, 10	55	.79	7.0	5.80	115	70
ER17S303JM	M39010/03A301JM	300	5	55	.79	6.5	6.40	110	65
ER17S333*M	M39010/03A331*M	330	5, 10	55	.79	6.5	6.40	110	65
ER17S363JM	M39010/03A361JM	360	5	55	.79	6.2	7.40	105	60
ER17S393*M	M39010/03A391*M	390	5, 10	60	.79	6.2	7.40	105	60
ER17S433JM	M39010/03A431JM	430	5	60	.79	5.7	9.50	92	58
ER17S473*M	M39010/03A471*M	470	5, 10	60	.79	5.7	9.50	92	58
ER17S513JM	M39010/03A511JM	510	5	60	.79	4.7	10.5	90	55
ER17S563*M	M39010/03A561*M	560	5, 10	60	.79	4.7	10.5	90	55
ER17S623JM	M39010/03A621JM	620	5	60	.79	4.5	11.8	80	50
ER17S683*M	M39010/03A681*M	680	5, 10	60	.79	4.5	11.8	80	50
ER17S753JM	M39010/03A751JM	750	5	60	.79	4.2	13.0	80	45
ER17S823*M	M39010/03A821*M	820	5, 10	60	.79	4.2	13.0	80	45
ER17S913JM	M39010/03A911JM	910	5	60	.79	3.8	17.5	70	40
ER17S104*M	M39010/03A102*M	1000	5, 10	60	.79	3.8	17.5	70	40

* Substitute “J” for 5% tolerance or “K” for 10% tolerance

2 SIDED LASER MARKING



NOTES:

- Operating Temperature Range: -55°C to +105°C
- Class A (105°C)
- Current Rating is @ a 90°C Ambient and 15°C Rise
- Weight Max. 0.03oz (0.85 gm) for /01
  0.04oz (1.13 gm) for /02 & /03
- DWV 1000 Vrms @ Sea Level
  200 Vrms @ 70,000 Feet
- Body color is Black
- Magnetic Shielding: 3% Max. Coupling
- Incremental Current (/03 only); 5% Max. Change in Inductance