

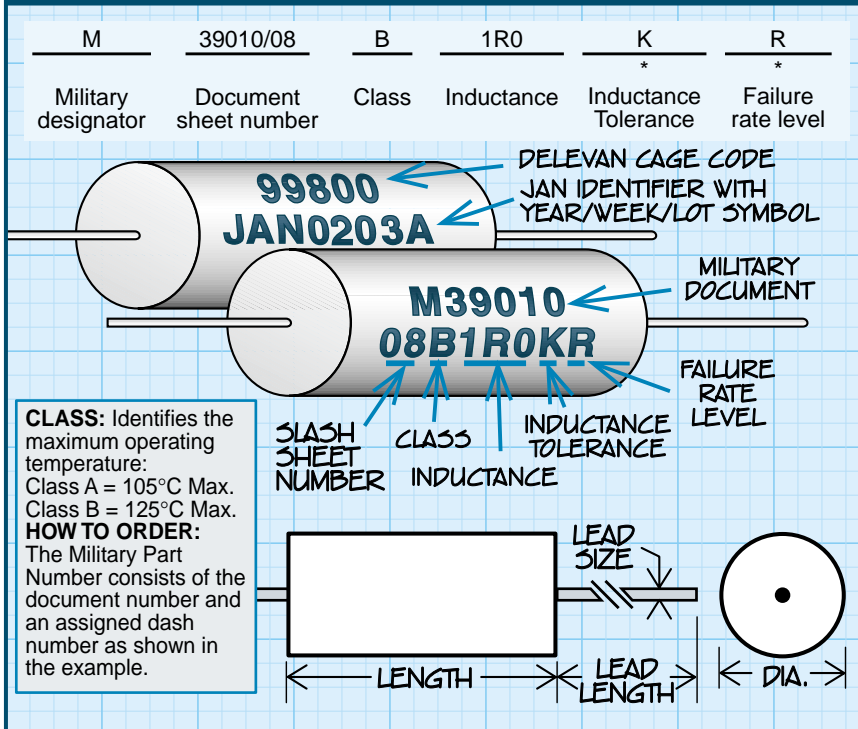


Established Reliability Inductors

RF INDUCTORS

Physical Parameters and Environmental Characteristics	ER1641			ER1840		ER1537		ER1025		
	MIL-PRF-39010/01	MIL-PRF-39010/02	MIL-PRF-39010/03	MIL-PRF-39010/04	MIL-PRF-39010/05	MIL-PRF-39010/06	MIL-PRF-39010/07	MIL-PRF-39010/08	MIL-PRF-39010/09	MIL-PRF-39010/10
Inductance Range, μH	0.10 to 0.82	0.91 to 12.0	15 to 1000	0.15 to 2.7	3.0 to 27.0	0.15 to 4.7	5.1 to 33	0.10 to 1.00	1.1 to 27.0	30 to 1000
Core Material	Phenolic	Iron	Ferrite	Phenolic	Iron	Phenolic	Iron	Phenolic	Iron	Ferrite
Sleeve	Iron	Iron	Ferrite	—	—	—	—	—	—	—
Length, Inches	0.410 ± 0.020	0.410 ± 0.020	0.410 ± 0.020	0.437 ± 0.01	0.437 ± 0.01	0.375 ± 0.010	0.375 ± 0.010	0.250 ± 0.010	0.250 ± 0.010	0.250 ± 0.010
Millimeters	10.41 ± 0.51	10.41 ± 0.51	10.41 ± 0.51	11.10 ± 0.25	11.10 ± 0.25	9.53 ± 0.25	9.53 ± 0.25	6.35 ± 0.25	6.35 ± 0.25	6.35 ± 0.25
Diameter, Inches	0.162 ± 0.010	0.162 ± 0.010	0.162 ± 0.010	0.187 ± 0.010	0.187 ± 0.010	0.156 ± 0.010	0.156 ± 0.010	0.095 ± 0.010	0.095 ± 0.010	0.095 ± 0.010
Millimeters	4.11 ± 0.25	4.11 ± 0.25	4.11 ± 0.25	4.75 ± 0.25	4.75 ± 0.25	3.96 ± 0.25	3.96 ± 0.25	2.41 ± 0.25	2.41 ± 0.25	2.41 ± 0.25
Lead Size — AWG #	#22 TCW	#22 TCW	#22 TCW	#22 TCW	#22 TCW	#22 TCW	#22 TCW	#24 TCW	#24 TCW	#24 TCW
Inches	0.025 ± 0.002	0.025 ± 0.002	0.025 ± 0.002	0.025 ± 0.002	0.025 ± 0.002	0.025 ± 0.002	0.025 ± 0.002	0.020 ± 0.0015	0.020 ± 0.0015	0.020 ± 0.0015
Millimeters	0.635 ± 0.051	0.635 ± 0.051	0.635 ± 0.051	0.635 ± 0.051	0.635 ± 0.051	0.635 ± 0.051	0.635 ± 0.051	0.51 ± 0.04	0.51 ± 0.04	0.51 ± 0.04
Lead Length, Inches	1.438 ± 0.188	1.438 ± 0.188	1.438 ± 0.188	1.438 ± 0.188	1.438 ± 0.188	1.438 ± 0.188	1.438 ± 0.188	1.438 ± 0.188	1.438 ± 0.188	1.438 ± 0.188
Millimeters	36.53 ± 4.77	36.53 ± 4.77	36.53 ± 4.77	36.58 ± 3.05	36.58 ± 3.05	36.53 ± 4.77	36.53 ± 4.77	36.53 ± 4.77	36.53 ± 4.77	36.53 ± 4.77
Weight Max. (Grams)	0.85	1.0	1.0	0.95	0.95	0.9	0.9	0.3	0.3	0.3
Current Rating at 90°C, Max. Rise °C	15	15	15	35	15	35	15	35	15	15
Operating Temp. °C	-55 to +105	-55 to +105	-55 to +105	-55 to +125	-55 to +105	-55 to +125	-55 to +105	-55 to +125	-55 to +105	-55 to +105
Max. Power Dissipation at 90°C, Watts	0.11	0.11	0.11	0.385	0.385	0.312	0.134	0.21	0.09	0.073
Coupling	3% Max.	3% Max.	3% Max.	—	—	—	—	—	—	—
Body Color	Black	Black	Black	Tan	Tan	Tan	Tan	Tan	Tan	Tan

MARKING EXAMPLE & ORDERING INFORMATION



MIL-PRF-39010 Molded RF Coils with Sn10 high-temperature solder for internal connections. **Approved Through Failure Rate Level R**

Note The complete Military dash numbers will include two additional letters, indicated in the tables on the following three pages by **. The first additional letter will indicate tolerance: J indicates $\pm 5\%$; K indicates $\pm 10\%$; L indicates $\pm 20\%$.

The second letter will indicate the failure rate (e.g., M, P, R).

Packaging Tape & reel
ER1025: 12" reel, 3500 pieces max.; 14" reel, 6000 pieces max.
ER1537 and ER1641: 12" reel, 2500 pieces max.; 14" reel, 4000 pieces max.
ER1840: 12" reel, 2500 pieces max.; 14" reel, 3000 pieces max. For additional packaging options, see technical section.

Made in the U.S.A.

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DELEVAN PART NUMBER	MILITARY DASH NUMBER	INDUCTANCE (µH)	IND. TOLERANCE (%)	Q MINIMUM	TEST FREQUENCY (MHz)	SRF MINIMUM (MHz)	DC RESISTANCE MAX. (OHMS @ 25°C)	RATED DC CURRENT (mA)	DELEVAN PART NUMBER	MILITARY DASH NUMBER	INDUCTANCE (µH)	IND. TOLERANCE (%)	Q MINIMUM	TEST FREQUENCY (MHz)	SRF MINIMUM (MHz)	DC RESISTANCE MAX. (OHMS @ 25°C)	RATED DC CURRENT (mA)
MIL-PRF-39010/05									MIL-PRF-39010/07								
ER1840-17**	A3R0**	3.00	5	30	7.9	70	0.140	945	ER1537-29**	A5R1**	5.1	5	45	7.9	60	0.32	495
ER1840-18**	A3R3**	3.30	5,10	30	7.9	70	0.140	945	ER1537-30**	A5R6**	5.6	5,10	45	7.9	60	0.32	495
ER1840-19**	A3R6**	3.60	5	30	7.9	65	0.155	870	ER1537-31**	A6R2**	6.2	5	45	7.9	55	0.50	395
ER1840-20**	A3R9**	3.90	5,10	30	7.9	65	0.155	870	ER1537-32**	A6R8**	6.8	5,10	50	7.9	55	0.50	395
ER1840-21**	A4R3**	4.30	5	30	7.9	60	0.210	745	ER1537-33**	A7R5**	7.5	5	50	7.9	50	0.60	360
ER1840-22**	A4R7**	4.70	5,10	30	7.9	60	0.210	745	ER1537-34**	A8R2**	8.2	5,10	50	7.9	50	0.60	360
ER1840-23**	A5R1**	5.10	5	30	7.9	50	0.280	645	ER1537-35**	A9R1**	9.1	5	50	7.9	45	0.90	290
ER1840-24**	A5R6**	5.60	5,10	30	7.9	50	0.280	645	ER1537-36**	A100**	10.0	5,10	55	7.9	45	0.90	290
ER1840-25**	A6R2**	6.20	5	30	7.9	50	0.375	560	ER1537-37**	A110**	11.0	5	55	2.5	42	1.10	265
ER1840-26**	A6R8**	6.80	5,10	30	7.9	50	0.375	560	ER1537-38**	A120**	12.0	5,10	65	2.5	42	1.10	265
ER1840-27**	A7R5**	7.50	5	30	7.9	48	0.440	520	ER1537-39**	A130**	13.0	5	65	2.5	40	1.40	240
ER1840-28**	A8R2**	8.20	5,10	30	7.9	48	0.440	520	ER1537-40**	A150**	15.0	5,10	65	2.5	40	1.40	240
ER1840-29**	A9R1**	9.10	5	30	7.9	42	0.605	440	ER1537-41**	A160**	16.0	5	65	2.5	34	2.25	185
ER1840-30**	A100**	10.0	5,10	30	7.9	42	0.605	440	ER1537-42**	A180**	18.0	5,10	75	2.5	34	2.25	185
ER1840-31**	A110**	11.0	5	30	2.5	36	1.05	335	ER1537-43**	A200**	20.0	5	75	2.5	30	2.50	175
ER1840-32**	A120**	12.0	5,10	50	2.5	36	1.05	335	ER1537-44**	A220**	22.0	5,10	75	2.5	30	2.50	175
ER1840-33**	A130**	13.0	5	50	2.5	30	1.20	310	ER1537-46**	A240**	24.0	5	60	2.5	25	2.60	170
ER1840-34**	A150**	15.0	5,10	55	2.5	30	1.20	310	ER1537-48**	A270**	27.0	5,10	60	2.5	25	2.60	170
ER1840-135**	A160**	16.0	5	55	2.5	30	1.95	245	ER1537-50**	A300**	30.0	5	60	2.5	19	3.00	165
ER1840-35**	A180**	18.0	5,10	60	2.5	30	1.95	245	ER1537-52**	A330**	33.0	5,10	65	2.5	19	3.00	165
ER1840-136**	A200**	20.0	5	60	2.5	24	2.20	230									
ER1840-36**	A220**	22.0	5,10	60	2.5	24	2.20	230	MIL-PRF-39010/08								
ER1840-37**	A240**	24.0	5	60	2.5	22	2.75	205	ER1025-94**	BR10**	0.10	5,10	40	25.0	680	0.08	1,350
ER1840-38**	A270**	27.0	5,10	65	2.5	22	2.75	205	ER1025-95**	BR11**	0.11	5	40	25.0	640	0.09	1,270
									ER1025-96**	BR12**	0.12	5,10	40	25.0	640	0.09	1,270
									ER1025-97**	BR13**	0.13	5	38	25.0	600	0.10	1,200
									ER1025-00**	BR15**	0.15	5,10	38	25.0	600	0.10	1,200
									ER1025-01**	BR16**	0.16	5	35	25.0	550	0.12	1,105
									ER1025-02**	BR18**	0.18	5,10	35	25.0	550	0.12	1,105
									ER1025-03**	BR20**	0.20	5	33	25.0	510	0.14	1,025
									ER1025-04**	BR22**	0.22	5,10	33	25.0	510	0.14	1,025
									ER1025-05**	BR24**	0.24	5	33	25.0	430	0.16	960
									ER1025-06**	BR27**	0.27	5,10	33	25.0	430	0.16	960
									ER1025-07**	BR30**	0.30	5	30	25.0	410	0.22	815
									ER1025-08**	BR33**	0.33	5,10	30	25.0	410	0.22	815
									ER1025-09**	BR36**	0.36	5	30	25.0	365	0.30	700
									ER1025-10**	BR39**	0.39	5,10	30	25.0	365	0.30	700
									ER1025-11**	BR43**	0.43	5	30	25.0	330	0.35	650
									ER1025-12**	BR47**	0.47	5,10	30	25.0	330	0.35	650
									ER1025-13**	BR51**	0.51	5	30	25.0	300	0.50	545
									ER1025-14**	BR56**	0.56	5,10	30	25.0	300	0.50	545
									ER1025-15**	BR62**	0.62	5	28	25.0	275	0.60	495
									ER1025-16**	BR68**	0.68	5,10	28	25.0	275	0.60	495
									ER1025-17**	BR75**	0.75	5	28	25.0	250	0.85	415
									ER1025-18**	BR82**	0.82	5,10	28	25.0	250	0.85	415
									ER1025-19**	BR91**	0.91	5	25	25.0	230	1.00	385
									ER1025-20**	B1R0**	1.00	5,10	25	25.0	230	1.00	385

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DELEVAN PART NUMBER	MILITARY DASH NUMBER	INDUCTANCE (μH)	IND. TOLERANCE (%)	Q MINIMUM	TEST FREQUENCY (MHz)	SRF MINIMUM (MHz)	DC RESISTANCE MAX. (OHMS @ 25°C)	RATED DC CURRENT (mA)	DELEVAN PART NUMBER	MILITARY DASH NUMBER	INDUCTANCE (μH)	IND. TOLERANCE (%)	Q MINIMUM	TEST FREQUENCY (MHz)	SRF MINIMUM (MHz)	DC RESISTANCE MAX. (OHMS @ 25°C)	RATED DC CURRENT (mA)
MIL-PRF-39010/09									MIL-PRF-39010/10								
ER1025-21**	A1R1**	1.1	5	25	7.9	150	0.18	590	ER1025-55**	A300**	30.0	5	45	2.50	24	3.4	130
ER1025-22**	A1R2**	1.2	5,10	25	7.9	150	0.18	590	ER1025-56**	A330**	33.0	5,10	45	2.50	24	3.4	130
ER1025-23**	A1R3**	1.3	5	25	7.9	140	0.22	535	ER1025-57**	A360**	36.0	5	45	2.50	22	3.6	125
ER1025-24**	A1R5**	1.5	5,10	28	7.9	140	0.22	535	ER1025-58**	A390**	39.0	5,10	45	2.50	22	3.6	125
ER1025-25**	A1R6**	1.6	5	28	7.9	125	0.30	455	ER1025-59**	A430**	43.0	5	45	2.50	20	4.5	110
ER1025-26**	A1R8**	1.8	5,10	30	7.9	125	0.30	455	ER1025-60**	A470**	47.0	5,10	45	2.50	20	4.5	110
ER1025-27**	A2R0**	2.0	5	30	7.9	115	0.40	395	ER1025-61**	A510**	51.0	5	45	2.50	18	5.7	100
ER1025-28**	A2R2**	2.2	5,10	30	7.9	115	0.40	395	ER1025-62**	A560**	56.0	5,10	45	2.50	18	5.7	100
ER1025-29**	A2R4**	2.4	5	30	7.9	100	0.55	335	ER1025-63**	A620**	62.0	5	45	2.50	15	6.7	92
ER1025-30**	A2R7**	2.7	5,10	37	7.9	100	0.55	335	ER1025-64**	A680**	68.0	5,10	50	2.50	15	6.7	92
ER1025-31**	A3R0**	3.0	5	37	7.9	90	0.85	270	ER1025-65**	A750**	75.0	5	50	2.50	14	7.3	88
ER1025-32**	A3R3**	3.3	5,10	45	7.9	90	0.85	270	ER1025-66**	A820**	82.0	5,10	50	2.50	14	7.3	88
ER1025-33**	A3R6**	3.6	5	45	7.9	80	1.00	250	ER1025-67**	A910**	91.0	5	50	2.50	13	8.0	84
ER1025-34**	A3R9**	3.9	5,10	45	7.9	80	1.00	250	ER1025-68**	A101**	100	5,10	50	2.50	13	8.0	84
ER1025-35**	A4R3**	4.3	5	45	7.9	75	1.20	230	ER1025-69**	A111**	110	5	30	0.79	12	13.0	66
ER1025-36**	A4R7**	4.7	5,10	45	7.9	75	1.20	230	ER1025-70**	A121**	120	5,10	30	0.79	12	13.0	66
ER1025-37**	A5R1**	5.1	5	45	7.9	65	1.80	185	ER1025-71**	A131**	130	5	30	0.79	11	15.0	61
ER1025-38**	A5R6**	5.6	5,10	50	7.9	65	1.80	185	ER1025-72**	A151**	150	5,10	30	0.79	11	15.0	61
ER1025-39**	A6R2**	6.2	5	50	7.9	60	2.00	175	ER1025-73**	A161**	160	5	30	0.79	10	17.0	57
ER1025-40**	A6R8**	6.8	5,10	50	7.9	60	2.00	175	ER1025-74**	A181**	180	5,10	30	0.79	10	17.0	57
ER1025-41**	A7R5**	7.5	5	50	7.9	55	2.70	155	ER1025-75**	A201**	200	5	30	0.79	9.0	21.0	52
ER1025-42**	A8R2**	8.2	5,10	55	7.9	55	2.70	155	ER1025-76**	A221**	220	5,10	30	0.79	9.0	21.0	52
ER1025-43**	A9R1**	9.1	5	55	7.9	50	3.70	130	ER1025-77**	A241**	240	5	30	0.79	8.0	25.0	47
ER1025-44**	A100**	10.0	5,10	55	7.9	50	3.70	130	ER1025-78**	A271**	270	5,10	30	0.79	8.0	25.0	47
ER1025-45**	A110**	11.0	5	45	2.5	40	2.70	130	ER1025-79**	A301**	300	5	30	0.79	7.0	28.0	45
ER1025-46**	A120**	12.0	5,10	45	2.5	40	2.70	155	ER1025-80**	A331**	330	5,10	30	0.79	7.0	28.0	45
ER1025-47**	A130**	13.0	5	40	2.5	35	2.80	150	ER1025-81**	A361**	360	5	30	0.79	6.5	35.0	40
ER1025-48**	A150**	15.0	5,10	40	2.5	35	2.80	150	ER1025-82**	A391**	390	5,10	30	0.79	6.5	35.0	40
ER1025-49**	A160**	16.0	5	40	2.5	30	3.10	145	ER1025-83**	A431**	430	5	30	0.79	6.0	42.0	36
ER1025-50**	A180**	18.0	5,10	50	2.5	30	3.10	145	ER1025-84**	A471**	470	5,10	30	0.79	6.0	42.0	36
ER1025-51**	A200**	20.0	5	50	2.5	25	3.30	140	ER1025-85**	A511**	510	5	30	0.79	5.0	46.0	35
ER1025-52**	A220**	22.0	5,10	50	2.5	25	3.30	140	ER1025-86**	A561**	560	5,10	30	0.79	5.0	46.0	35
ER1025-53**	A240**	24.0	5	50	2.5	20	3.50	135	ER1025-87**	A621**	620	5	30	0.79	4.0	60.0	30
ER1025-54**	A270**	27.0	5,10	50	2.5	20	3.50	135	ER1025-88**	A681**	680	5,10	30	0.79	4.0	60.0	30
									ER1025-89**	A751**	750	5	30	0.79	3.8	65.0	29
									ER1025-90**	A821**	820	5,10	30	0.79	3.8	65.0	29
									ER1025-91**	A911**	910	5	30	0.79	3.4	72.0	28
									ER1025-92**	A102**	1,000	5,10	30	0.79	3.4	72.0	28

RF INDUCTORS