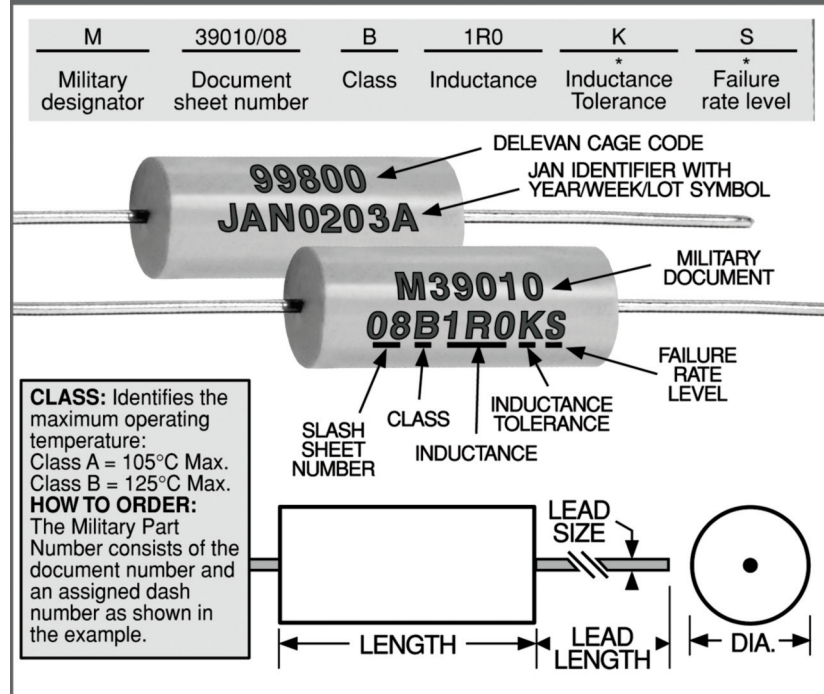


Established Reliability Inductors

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 240.0	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 S

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, S).

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.

CONTINUED ON NEXT PAGE

ER SERIES (continued)

DELEVAN PART NUMBER	MILITARY DASH NUMBER	INDUCTANCE (μH)	IND. TOLERANCE (%)	TEST FREQUENCY (MHz)	SRF MINIMUM (MHz)	MAXIMUM (OHMS @ 25°C)	DC RESISTANCE (OHMS @ 25°C)	CURRENT (mA)	RATED DC
MIL-PRF-39010/09									
ER1025-21**	A1R1**	1.1	5	25	7.9	150	0.18	590	
ER1025-22**	A1R2**	1.2	5,10	25	7.9	150	0.18	590	
ER1025-23**	A1R3**	1.3	5	25	7.9	140	0.22	535	
ER1025-24**	A1R5**	1.5	5,10	28	7.9	140	0.22	535	
ER1025-25**	A1R6**	1.6	5	28	7.9	125	0.30	455	
ER1025-26**	A1R8**	1.8	5,10	30	7.9	125	0.30	455	
ER1025-27**	A2R0**	2.0	5	30	7.9	115	0.40	395	
ER1025-28**	A2R2**	2.2	5,10	30	7.9	115	0.40	395	
ER1025-29**	A2R4**	2.4	5	30	7.9	100	0.55	335	
ER1025-30**	A2R7**	2.7	5,10	37	7.9	100	0.55	335	
ER1025-31**	A3R0**	3.0	5	37	7.9	90	0.85	270	
ER1025-32**	A3R3**	3.3	5,10	45	7.9	90	0.85	270	
ER1025-33**	A3R6**	3.6	5	45	7.9	80	1.00	250	
ER1025-34**	A3R9**	3.9	5,10	45	7.9	80	1.00	250	
ER1025-35**	A4R3**	4.3	5	45	7.9	75	1.20	230	
ER1025-36**	A4R7**	4.7	5,10	45	7.9	75	1.20	230	
ER1025-37**	A5R1**	5.1	5	45	7.9	65	1.80	185	
ER1025-38**	A5R6**	5.6	5,10	50	7.9	65	1.80	185	
ER1025-39**	A6R2**	6.2	5	50	7.9	60	2.00	175	
ER1025-40**	A6R8**	6.8	5,10	50	7.9	60	2.00	175	
ER1025-41**	A7R5**	7.5	5	50	7.9	55	2.70	155	
ER1025-42**	A8R2**	8.2	5,10	55	7.9	55	2.70	155	
ER1025-43**	A9R1**	9.1	5	55	7.9	50	3.70	130	
ER1025-44**	A100**	10.0	5,10	55	7.9	50	3.70	130	
ER1025-45**	A110**	11.0	5	45	2.5	40	2.70	130	
ER1025-46**	A120**	12.0	5,10	45	2.5	40	2.70	155	
ER1025-47**	A130**	13.0	5	40	2.5	35	2.80	150	
ER1025-48**	A150**	15.0	5,10	40	2.5	35	2.80	150	
ER1025-49**	A160**	16.0	5	40	2.5	30	3.10	145	
ER1025-50**	A180**	18.0	5,10	50	2.5	30	3.10	145	
ER1025-51**	A200**	20.0	5	50	2.5	25	3.30	140	
ER1025-52**	A220**	22.0	5,10	50	2.5	25	3.30	140	
ER1025-53**	A240**	24.0	5	50	2.5	20	3.50	135	
ER1025-54**	A270**	27.0	5,10	50	2.5	20	3.50	135	

DELEVAN PART NUMBER	MILITARY DASH NUMBER	INDUCTANCE (μH)	IND. TOLERANCE (%)	TEST FREQUENCY (MHz)	SRF MINIMUM (MHz)	MAXIMUM (OHMS @ 25°C)	DC RESISTANCE (OHMS @ 25°C)	CURRENT (mA)	RATED DC
MIL-PRF-39010/10									
ER1025-55**	A300**	30.0	5	45	2.50	24	3.4	130	
ER1025-56**	A330**	33.0	5,10	45	2.50	24	3.4	130	
ER1025-57**	A360**	36.0	5	45	2.50	22	3.6	125	
ER1025-58**	A390**	39.0	5,10	45	2.50	22	3.6	125	
ER1025-59**	A430**	43.0	5	45	2.50	20	4.5	110	
ER1025-60**	A470**	47.0	5,10	45	2.50	20	4.5	110	
ER1025-61**	A510**	51.0	5	45	2.50	18	5.7	100	
ER1025-62**	A560**	56.0	5,10	45	2.50	18	5.7	100	
ER1025-63**	A620**	62.0	5	45	2.50	15	6.7	92	
ER1025-64**	A680**	68.0	5,10	50	2.50	15	6.7	92	
ER1025-65**	A750**	75.0	5	50	2.50	14	7.3	88	
ER1025-66**	A820**	82.0	5,10	50	2.50	14	7.3	88	
ER1025-67**	A910**	91.0	5	50	2.50	13	8.0	84	
ER1025-68**	A101**	100	5,10	50	2.50	13	8.0	84	
ER1025-69**	A111**	110	5	30	0.79	12	13.0	66	
ER1025-70**	A121**	120	5,10	30	0.79	12	13.0	66	
ER1025-71**	A131**	130	5	30	0.79	11	15.0	61	
ER1025-72**	A151**	150	5,10	30	0.79	11	15.0	61	
ER1025-73**	A161**	160	5	30	0.79	10	17.0	57	
ER1025-74**	A181**	180	5,10	30	0.79	10	17.0	57	
ER1025-75**	A201**	200	5	30	0.79	9.0	21.0	52	
ER1025-76**	A221**	220	5,10	30	0.79	9.0	21.0	52	
ER1025-77**	A241**	240	5	30	0.79	8.0	25.0	47	
ER1025-78**	A271**	270	5,10	30	0.79	8.0	25.0	47	
ER1025-79**	A301**	300	5	30	0.79	7.0	28.0	45	
ER1025-80**	A331**	330	5,10	30	0.79	7.0	28.0	45	
ER1025-81**	A361**	360	5	30	0.79	6.5	35.0	40	
ER1025-82**	A391**	390	5,10	30	0.79	6.5	35.0	40	
ER1025-83**	A431**	430	5	30	0.79	6.0	42.0	36	
ER1025-84**	A471**	470	5,10	30	0.79	6.0	42.0	36	
ER1025-85**	A511**	510	5	30	0.79	5.0	46.0	35	
ER1025-86**	A561**	560	5,10	30	0.79	5.0	46.0	35	
ER1025-87**	A621**	620	5	30	0.79	4.0	60.0	30	
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	

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