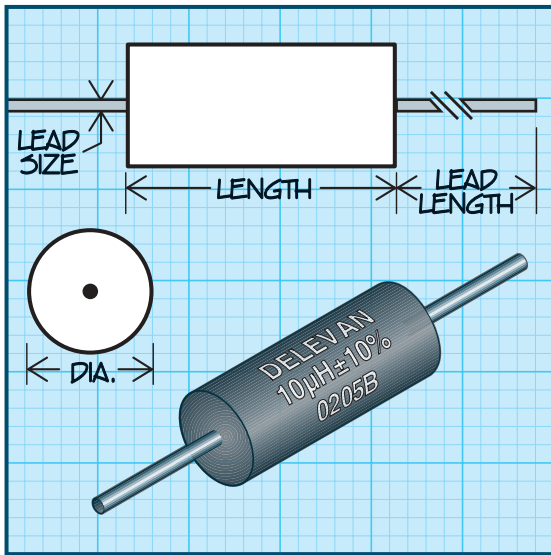


Series 1641

Molded Shielded RF Coils



Military Specifications

MS75087 (LT10K); MS75088 (LT10K);
MS75089 (15µH to 1000µH only) (LT10K)

Physical Parameters

	Inches	Millimeters
Length	0.410 ± 0.020	10.41 ± 0.51
Diameter	0.162 ± 0.010	4.11 ± 0.25
Lead Size		
AWG #22 TCW	0.025 ± 0.002	0.635 ± 0.05
Lead Length	1.44 ± 0.12	36.58 ± 3.05

Current Rating at 90°C Ambient 15°C Rise

Operating Temperature Range -55°C to +105°C

Maximum Power Dissipation at 90°C 0.11 W

Weight Max. (Grams) 1.0

Incremental Current Current level which causes a Max. of 5% change in inductance.

Coupling 3% Max.

Packaging Tape & reel: 12" reel, 2500 pieces max.; 14" reel, 4000 pieces max. For additional packaging options, see page 146.

Made in the U.S.A.

PART NUMBER

MIL DASH #

INDUCTANCE (µH) ±10%

Q MINIMUM

TEST FREQUENCY (MHz)

SRF MINIMUM (MHz)

DC RESISTANCE MAXIMUM (OHMS)

CURRENT RATING MAXIMUM (mA)

INCREMENTAL CURRENT (mA)

MS75087- SERIES 1641 PHENOLIC CORE/IRON SLEEVE (LT10K)

1641-101K	1	0.10	50	25.0	250.0	0.025	1830	1830
1641-121K	2	0.12	51	25.0	250.0	0.034	1570	1570
1641-151K	3	0.15	51	25.0	250.0	0.037	1500	1500
1641-181K	4	0.18	50	25.0	250.0	0.047	1330	1330
1641-221K	5	0.22	49	25.0	250.0	0.067	1120	1120
1641-271K	6	0.27	47	25.0	250.0	0.11	870	870
1641-331K	7	0.33	46	25.0	250.0	0.13	800	800
1641-391K	8	0.39	44	25.0	250.0	0.18	680	680
1641-471K	9	0.47	44	25.0	235.0	0.25	580	580
1641-561K	10	0.56	43	25.0	210.0	0.33	505	505
1641-681K	11	0.68	42	25.0	190.0	0.45	430	430
1641-821K	12	0.82	40	25.0	180.0	0.59	375	375

MS75088- SERIES 1641 IRON CORE & SLEEVE (LT10K)

1641-102K	1	1.0	44	25.0	140.0	0.07	1090	1090
1641-122K	2	1.2	44	7.9	130.0	0.10	900	900
1641-152K	3	1.5	44	7.9	115.0	0.12	835	835
1641-182K	4	1.8	44	7.9	105.0	0.14	775	775
1641-222K	5	2.2	44	7.9	100.0	0.19	665	665
1641-272K	6	2.7	44	7.9	92.0	0.28	545	545
1641-332K	7	3.3	44	7.9	85.0	0.35	490	490
1641-392K	8	3.9	44	7.9	75.0	0.40	455	455
1641-472K	9	4.7	44	7.9	70.0	0.55	390	390
1641-562K	10	5.6	44	7.9	65.0	0.72	340	340
1641-682K	11	6.8	50	7.9	55.0	1.02	285	285
1641-822K	12	8.2	50	7.9	50.0	1.32	250	250
1641-103K	13	10.0	50	7.9	46.0	1.62	228	228
1641-123K	14	12.0	55	2.5	44.0	2.00	205	205

MS75089- SERIES 1641 FERRITE CORE & SLEEVE (LT10K)

1641-153K	1	15.0	45	2.5	49.0	0.80	325	250
1641-183K	2	18.0	45	2.5	45.0	0.89	305	235
1641-223K	3	22.0	45	2.5	41.0	0.96	295	220
1641-273K	4	27.0	45	2.5	38.0	1.19	265	200
1641-333K	5	33.0	45	2.5	34.0	1.37	248	190
1641-393K	6	39.0	50	2.5	29.0	1.93	209	180
1641-473K	7	47.0	50	2.5	27.0	2.11	200	175
1641-563K	8	56.0	50	2.5	25.0	2.23	194	160
1641-683K	9	68.0	50	2.5	21.0	2.70	176	150
1641-823K	10	82.0	50	2.5	10.5	2.44	186	140
1641-104K	11	100.0	50	2.5	10.0	3.12	164	120
1641-124K	12	120.0	55	0.79	9.7	3.60	153	95
1641-154K	13	150.0	55	0.79	8.5	4.10	143	90
1641-184K	14	180.0	55	0.79	8.0	4.40	138	85
1641-224K	15	220.0	55	0.79	7.5	5.00	130	80
1641-274K	16	270.0	55	0.79	7.0	5.80	120	70
1641-334K	17	330.0	55	0.79	6.5	6.40	115	65
1641-394K	18	390.0	60	0.79	6.2	7.40	107	60
1641-474K	19	470.0	60	0.79	5.7	9.50	94	58
1641-564K	20	560.0	60	0.79	4.7	10.5	90	55
1641-684K	21	680.0	60	0.79	4.5	11.8	84	50
1641-824K	22	820.0	60	0.79	4.2	13.0	80	45
1641-105K	23	1000.0	60	0.79	3.8	17.5	70	40

* See 4307 Series (page 52) for values above 1000µH.

Parts listed above are QPL/MIL qualified

Optional Tolerances: J = 5% H = 3%