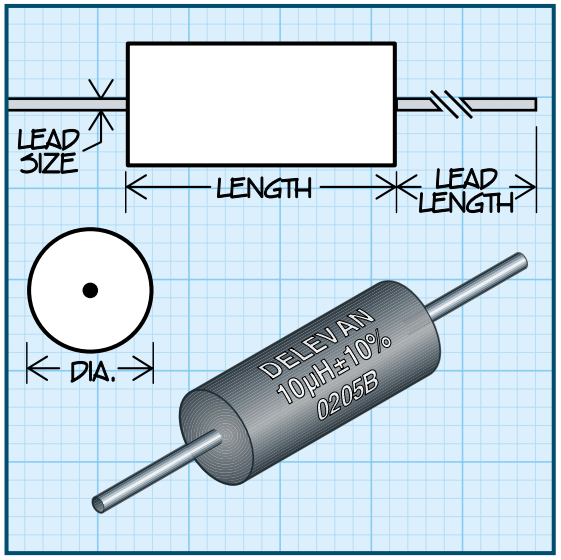
Series 1641R 1641

RoHS Compliant

MILITARY QPL APPROVED

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 technical section.

Made in the U.S.A.

DASH 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)								
-101K	1	0.10	50	25.0	250.0	0.025	1830	1830
-121K	2	0.12	51	25.0	250.0	0.034	1570	1570
-151K	3	0.15	51	25.0	250.0	0.037	1500	1500
-181K	4	0.18	50	25.0	250.0	0.047	1330	1330
-221K	5	0.22	49	25.0	250.0	0.067	1120	1120
-271K	6	0.27	47	25.0	250.0	0.11	870	870
-331K	7	0.33	46	25.0	250.0	0.13	800	800
-391K	8	0.39	44	25.0	250.0	0.18	680	680
-471K	9	0.47	44	25.0	235.0	0.25	580	580
-561K	10	0.56	43	25.0	210.0	0.33	505	505
-681K	11	0.68	42	25.0	190.0	0.45	430	430
-821K	12	0.82	40	25.0	180.0	0.59	375	375
MS75088– SERIES 1641 IRON CORE & SLEEVE (LT10K)								
-102K	1	1.0	44	25.0	140.0	0.07	1090	1090
-122K	2	1.2	44	7.9	130.0	0.10	900	900
-152K	3	1.5	44	7.9	115.0	0.12	835	835
-182K	4	1.8	44	7.9	105.0	0.14	775	775
-222K	5	2.2	44	7.9	100.0	0.19	665	665
-272K	6	2.7	44	7.9	92.0	0.28	545	545
-332K	7	3.3	44	7.9	85.0	0.35	490	490
-392K	8	3.9	44	7.9	75.0	0.40	455	455
-472K	9	4.7	44	7.9	70.0	0.55	390	390
-562K	10	5.6	44	7.9	65.0	0.72	340	340
-682K	11	6.8	50	7.9	55.0	1.02	285	285
-822K	12	8.2	50	7.9	50.0	1.32	250	250
-103K	13	10.0	50	7.9	46.0	1.62	228	228
-123K	14	12.0	55	2.5	44.0	2.00	205	205
MS75089– SERIES 1641 FERRITE CORE & SLEEVE (LT10K)								
-153K	1	15.0	45	2.5	49.0	0.80	325	250
-183K	2	18.0	45	2.5	45.0	0.89	305	235
-223K	3	22.0	45	2.5	41.0	0.96	295	220
-273K	4	27.0	45	2.5	38.0	1.19	265	200
-333K	5	33.0	45	2.5	34.0	1.37	248	190
-393K	6	39.0	50	2.5	29.0	1.93	209	180
-473K	7	47.0	50	2.5	27.0	2.11	200	175
-563K	8	56.0	50	2.5	25.0	2.23	194	160
-683K	9	68.0	50	2.5	21.0	2.70	176	150
-823K	10	82.0	50	2.5	10.5	2.44	186	140
-104K	11	100.0	50	2.5	10.0	3.12	164	120
-124K	12	120.0	55	0.79	9.7	3.60	153	95
-154K	13	150.0	55	0.79	8.5	4.10	143	90
-184K	14	180.0	55	0.79	8.0	4.40	138	85
-224K	15	220.0	55	0.79	7.5	5.00	130	80
-274K	16	270.0	55	0.79	7.0	5.80	120	70
-334K	17	330.0	55	0.79	6.5	6.40	115	65
-394K	18	390.0	60	0.79	6.2	7.40	107	60
-474K	19	470.0	60	0.79	5.7	9.50	94	58
-564K	20	560.0	60	0.79	4.7	10.5	90	55
-684K	21	680.0	60	0.79	4.5	11.8	84	50
-824K	22	820.0	60	0.79	4.2	13.0	80	45
-105K	23	1000.0	60	0.79	3.8	17.5	70	40

See 4307 Series (page 53) for values above 1000µH.

Parts listed above are QPL/MIL qualified

Optional Tolerances: J = 5% H = 3%

***Complete part # must include series # PLUS the dash #**

For further surface finish information, refer to TECHNICAL section of this catalog.

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