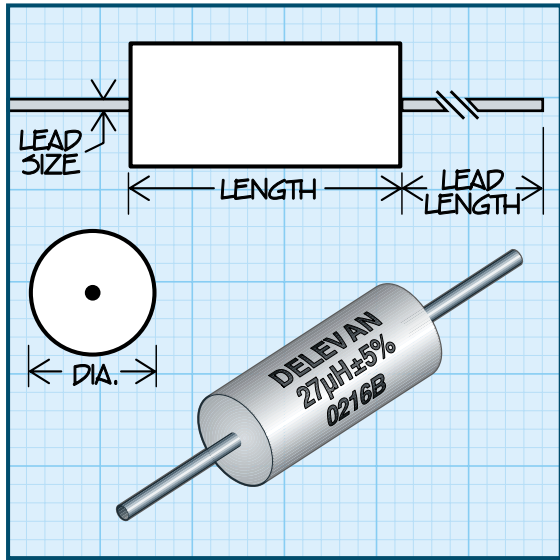


**Molded Unshielded RF Coils**

RF INDUCTORS



**Military Specifications** MS14046 (LT10K); MS18130 (LT4K); MS90538 (LT10K);  
 ○ No MS # Issued

**Physical Parameters**

	Inches	Millimeters
Length	0.375 ± 0.010	9.53 ± 0.25
Diameter	0.156 ± 0.010	3.96 ± 0.25
Lead Size		
AWG #22 TCW	0.025 ± 0.002	0.635 ± 0.051
Lead Length	1.44 ± 0.12	36.58 ± 3.05

**Current Rating at 90°C Ambient**  
 LT4K 35°C Rise  
 LT10K 15°C Rise

**Operating Temperature Range**  
 LT4K -55°C to +125°C;  
 LT10K -55°C to +105°C

**Maximum Power Dissipation at 90°C**  
 LT4K 0.312 W  
 LT10K 0.134 W

**Weight Max.** (Grams) 0.9

• For in-between values, see Series 511 (page 44)

**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)	TOLERANCE	Q MINIMUM	TEST FREQUENCY (MHz)	SRF MINIMUM (MHz)	DC RESISTANCE MAXIMUM (OHMS)	CURRENT RATING MAXIMUM (mA)
<b>MS18130- SERIES 1537 PHENOLIC CORE (LT4K)</b>									
-00M	1	0.15	± 20%	50	25.0	525.0	0.03	2740	
-02M	2	0.22	± 20%	50	25.0	450.0	0.055	2020	
-04M	3	0.33	± 20%	45	25.0	360.0	0.09	1580	
-06M	4	0.47	± 20%	45	25.0	310.0	0.12	1370	
-07K	5	0.56	± 10%	50	25.0	280.0	0.135	1290	
-08K	6	0.68	± 10%	50	25.0	250.0	0.15	1220	
-10K	7	0.82	± 10%	50	25.0	220.0	0.22	1020	
-12K	8	1.00	± 10%	50	25.0	200.0	0.29	880	
-14K	9	1.20	± 10%	33	7.9	180.0	0.42	730	
-16K	10	1.50	± 10%	33	7.9	160.0	0.50	670	
-18K	11	1.80	± 10%	33	7.9	150.0	0.65	590	
-20K	12	2.20	± 10%	33	7.9	135.0	0.95	485	
-22K	13	2.70	± 10%	33	7.9	120.0	1.20	430	
-24K	14	3.30	± 10%	33	7.9	110.0	2.00	335	
-26K	15	3.90	± 10%	33	7.9	100.0	2.30	310	
-28K	16	4.70	± 10%	33	7.9	90.0	2.60	294	
<b>MS14046- SERIES 1537 IRON CORE (LT10K)</b>									
-30K	1	5.60	± 10%	45	7.9	60.0	0.32	565	
-32K	2	6.80	± 10%	50	7.9	55.0	0.50	450	
-34K	3	8.20	± 10%	50	7.9	50.0	0.60	410	
-36K	4	10.0	± 10%	55	7.9	45.0	0.90	335	
-38K	5	12.0	± 10%	65	2.5	42.0	1.10	305	
-40K	6	15.0	± 10%	65	2.5	40.0	1.40	271	
-42K	7	18.0	± 10%	75	2.5	34.0	2.25	213	
-44K	8	22.0	± 10%	75	2.5	30.0	2.50	202	
-46J	●	24.0	± 5%	60	2.5	26.0	2.50	202	
-47K	9	27.0	± 10%	60	2.5	25.0	2.60	198	
-48J	●	27.0	± 5%	60	2.5	25.0	2.60	198	
-50J	●	30.0	± 5%	65	2.5	21.0	2.80	191	
-51K	10	33.0	± 10%	65	2.5	19.0	3.00	185	
-52J	●	33.0	± 5%	65	2.5	19.0	3.00	185	
<b>MS90538- SERIES 1537 IRON CORE (LT10K)</b>									
-54J	1	36.0	± 5%	60	2.5	15.5	2.50	202	
-56J	2	39.0	± 5%	60	2.5	14.5	2.60	198	
-58J	3	43.0	± 5%	60	2.5	13.7	2.70	194	
-60J	4	47.0	± 5%	55	2.5	13.0	2.75	193	
-62J	5	51.0	± 5%	55	2.5	12.7	2.85	189	
-64J	6	56.0	± 5%	55	2.5	12.0	3.00	184	
-66J	7	62.0	± 5%	55	2.5	11.5	3.15	180	
-68J	8	68.0	± 5%	55	2.5	11.0	3.30	176	
-70J	9	75.0	± 5%	55	2.5	10.5	3.70	166	
-72J	10	82.0	± 5%	50	2.5	10.3	3.90	162	
-74J	11	91.0	± 5%	50	2.5	10.0	4.30	154	
-76J	12	100.0	± 5%	50	2.5	9.5	4.50	151	
-78J	13	110.0	± 5%	60	0.79	8.9	4.90	144	
-80J	14	120.0	± 5%	65	0.79	8.7	5.20	140	
-82J	15	130.0	± 5%	65	0.79	8.5	5.45	137	
-84J	16	150.0	± 5%	65	0.79	8.0	6.05	130	
-86J	17	160.0	± 5%	65	0.79	7.5	6.40	126	
-88J	18	180.0	± 5%	65	0.79	7.0	6.75	123	
-90J	19	200.0	± 5%	65	0.79	6.5	7.10	120	
-92J	20	220.0	± 5%	65	0.79	6.2	7.45	117	
-94J	21	240.0	± 5%	65	0.79	5.9	7.80	115	

Parts listed above are QPL/MIL qualified

Optional Tolerances: J = 5% H = 3% G = 2% F = 1%

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

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