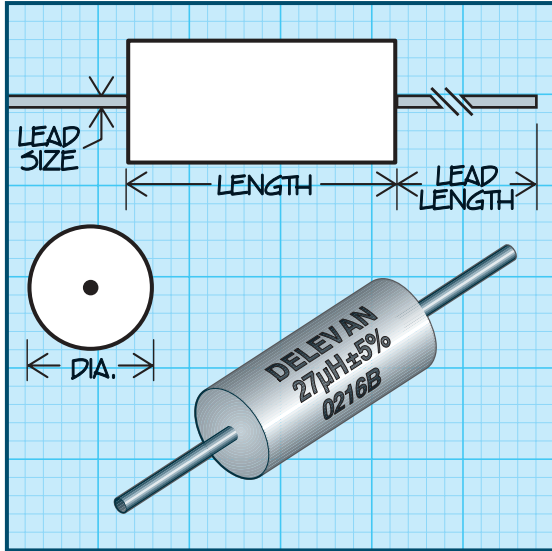


# Series 1537

## Molded Unshielded RF Coils



**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 43)

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