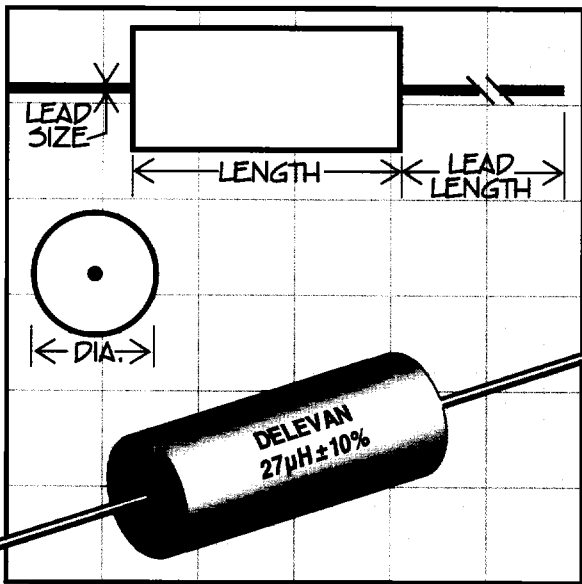




# Series 1537

## Molded Unshielded RF Coils



### Military Specifications

MS14046 (LT10K); MS18130 (LT4K); MS90538 (LT10K)

### 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 53)

● No MS # Issued

Made in the U.S.A.

PART NUMBER  
MIL DASH #  
INDUCTANCE (µH)  
Q MINIMUM  
TEST FREQUENCY (MHz)  
RESONANT FREQUENCY MINIMUM (MHz)  
DC RESISTANCE MAXIMUM (OHMS)  
CURRENT RATING MAXIMUM (mA)

### MS18130- SERIES 1537 PHENOLIC CORE (LT4K)

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

### MS14046- SERIES 1537 IRON CORE (LT10K)

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

### MS90538- SERIES 1537 IRON CORE (LT10K)

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%

STANDARD DEVICES