

8mm

Inches/[mm]
±.010/[±.25]
2 x size

.200 [5.0]

.055
(Tab Width)

.270
6.8

.310
7.9

.200
5.0

.025

L337 SERIES

Tuned Core
Fixed Cup

PHOTO NOT TO SCALE

- Stable Inductance
- Superior Temperature Stability
- Q vs Frequency Graph on Page 5
- Winding Capacity Table on Page 6
- Available as: Un-wound Hardware Only
- Quality Inspection Level: MIL-STD-1916 Level IV

ASSEMBLY PART NO.	COLOR CODE	MAGNETIC MATERIAL(1)	FREQUENCY RANGE (2)	MATERIAL PERMEABILITY	ASSEMBLY AL nH/turn ² (3)	MAX µH 100 turns	MIN µH (4) 100 turns	TEMPERATURE STABILITY(5)
L337-1-CT-F-4	BLUE	CARBONYL C	.15-2.0 MHZ	20.0	7.6	76	45	280 ppm/°C
L337-2-CT-F-4	RED	CARBONYL E	.25-10 MHZ	10.0	6.8	68	45	95 ppm/°C
L337-3-CT-F-4	GREY	CARBONYL HP	.02-1.0 MHZ	35.0	8.0	80	46	370 ppm/°C
L337-6-CT-F-4	YELLOW	CARBONYL SF	2.0-50 MHZ	8.5	6.0	60	38	35 ppm/°C
L337-7-CT-F-4	WHITE	CARBONYL TH	1.0-20 MHZ	9.0	6.4	64	40	30 ppm/°C
L337-10-CT-F-4	BLACK	CARBONYL W	10-100MHZ	6.0	5.4	54	37	150 ppm/°C
L337-17-CT-F-4	LAVENDER	CARBONYL	20-200MHZ	4.0	4.8	48	37	50 ppm/°C

1) The iron powder or ferrite materials are used in the tuning core and cup core.

2) This represents the frequency range for Q optimization in tuned or resonant circuits. The inductive properties of the material is effective over a considerably wider frequency range.

3) Nanohenries (10⁻⁹ Henries) per turn squared.

4) The minimum inductance is measured in microhenries (10⁻⁶ Henries) per 100 turns with the tuning core tuned out of the winding area but still a part of the assembly.

5) The temperature stability is of the magnetic material, measured in parts per million per degree Celsius (ppm/°C) on a toroidal core and winding. This is only an indication of the temperature stability for a complete wound assembly.

Assembly Sub-components

Actual Size

4 TERMINAL ASSEMBLY	BASE ONLY (6)	WINDING FORM (7)	BASE ASSEMBLY	COLOR CODE	THREADED CORE (8)	CUP CORE	SHIELD CAN
L337-1-CT-F-4	B514	CF117	B514-w/CF117	BLUE	TH12-101	C9-3701	CN417CT
L337-2-CT-F-4	B514	CF117	B514-w/CF117	RED	TH12-102	C9-3702	CN417CT
L337-3-CT-F-4	B514	CF117	B514-w/CF117	GREY	TH12-103	C9-3703	CN417CT
L337-6-CT-F-4	B514	CF117	B514-w/CF117	GREY/ORANGE	TH12-106	C9-3706	CN417CT
L337-7-CT-F-4	B514	CF117	B514-w/CF117	YELLOW	TH12-107	C9-3707	CN417CT
L337-10-CT-F-4	B514	CF117	B514-w/CF117	WHITE	TH12-110	C9-3710	CN417CT
L337-17-CT-F-4	B514	CF117	B514-w/CF117	BLACK	TH12-117	C9-3717	CN417CT

5 TERMINAL ASSEMBLY

L337-()-CT-F-5	B515	CF117	B515-w/CF117	AS ABOVE	TH12-1()	C9-37()	CN417CT
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6) The base is moulded from thermoset Diallyl Phthalate (DAP). The 4 or 5 terminals available are half hard brass, .024 inches in diameter, tin plated to MIL-STD 202 Method 208 for solderability. Optional base B524 is available with .050 standoffs.

7) The coil form is a glass reinforced polyester tube with 6-32 internal threads.

8) The tuning core is 6-32 shallow thread coated with Teflon.