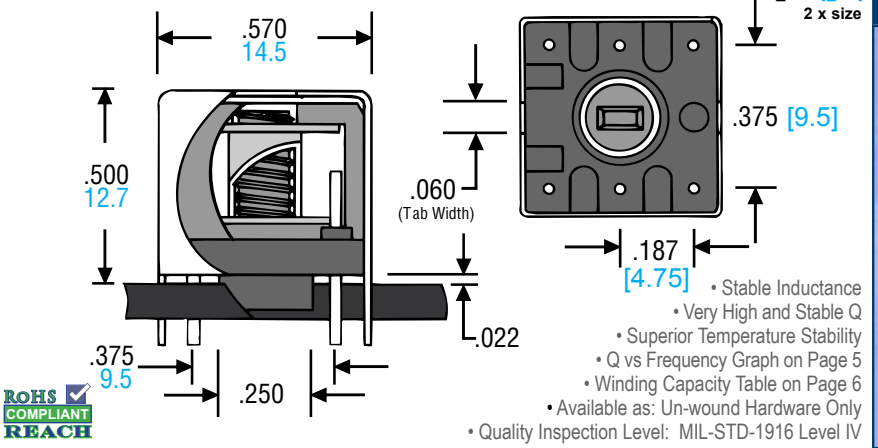
14.5mm

L57 SERIES



- Stable Inductance
- Very High and Stable Q
- 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

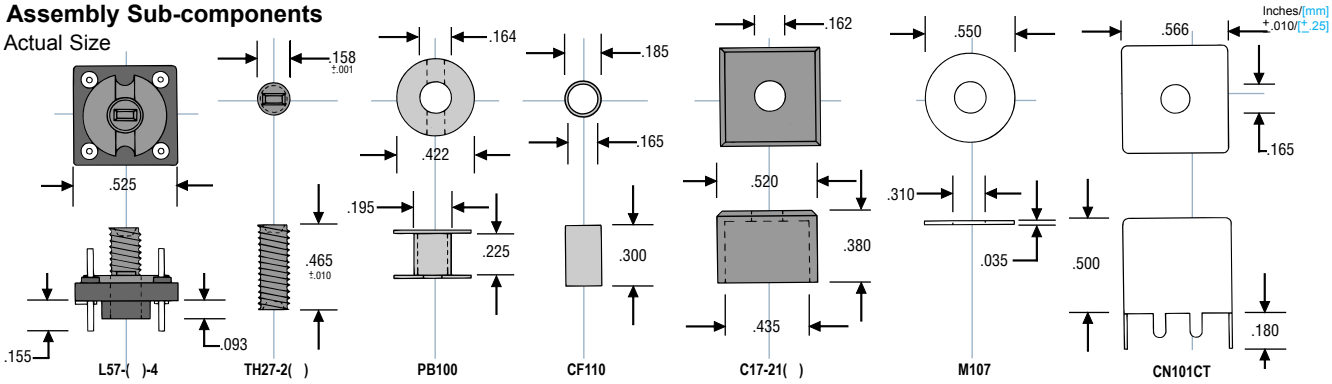
PHOTO NOT TO SCALE

ASSEMBLY PART NO.	COLOR CODE	MAGNETIC MATERIAL (1)	FREQUENCY RANGE (2)	MATERIAL PERMEABILITY	ASSEMBLY A_L nH/turns^2 (3)	MAX µh 100 turns	MIN µh (4) 100 turns	TEMPERATURE STABILITY (5)
L57-1-PCT-B-4	BLUE	CARBONYL C	.15-2.0 Mhz	20.0	18.5	185	60	280 ppm/^{0}C
L57-2-PCT-B-4	RED	CARBONYL E	.25-10 Mhz	10.0	13.0	130	54	95 ppm/^{0}C
L57-3-PCT-B-4	GREY	CARBONYL HP	.02-1.0 Mhz	35.0	21.5	215	70	370 ppm/^{0}C
L57-6-PCT-B-4	YELLOW	CARBONYL SF	10-50 Mhz	8.5	12.0	120	51	35 ppm/^{0}C
L57-10-PCT-B-4	BLACK	CARBONYL W	10-100 Mhz	6.0	10.5	105	50	150 ppm/^{0}C
L57-17-PCT-B-4	LAVENDER	CARBONYL	20-200 Mhz	4.0	7.0	70	50	50 ppm/^{0}C

1) The iron powder or ferrite materials are used in a portion of the base, the tuning core and cup core. Mix 3F is a combination of a ferrite tuning core and an iron powder 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/^{0}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)	TUNING CORE (7)	BASE ASSEMBLY	COLOR CODE	WINDING FORM (8)	CUP CORE	RUBBER PAD (9)	SHIELD CAN
L57-1-PCT-B-4	B202-1	TH27-201	L57-1-4	BLUE	PB100	C17-2101	M107	CN101CT
L57-2-PCT-B-4	B202-2	TH27-202	L57-2-4	RED	PB100	C17-2102	M107	CN101CT
L57-3-PCT-B-4	B202-3	TH27-203	L57-3-4	GREY	PB100	C17-2103	M107	CN101CT
L57-3F-PCT-B-4	B202-3	TH27-268	L57-3F-4	GREY/ORANGE	PB100	C17-2103	M107	CN101CT
L57-6-PCT-B-4	B202-6	TH27-206	L57-6-4	YELLOW	PB100	C17-2106	M107	CN101CT
L57-10-PCT-B-4	B202-10	TH27-210	L57-10-4	BLACK	PB100	C17-2110	M107	CN101CT
L57-17-PCT-B-4	B202-17	TH27-217	L57-17-4	LAVENDER	PB100	C17-2117	M107	CN101CT
4 TERMINAL ASSEMBLY WITH PAPER COIL FORM								
L5701-( )-PCT-F-4	B202- ( )	TH27-2( )	L5701-( )-4	AS ABOVE	CF110	C17-21( )	M107	CN101CT
6 TERMINAL ASSEMBLY								
L57-( )-PCT-B-6	B200-( )	TH27-2( )	L57-( )-6	AS ABOVE	PB100	C17-21( )	M107	CN101CT
6 TERMINAL ASSEMBLY WITH PAPER COIL FORM								
L5701-( )-PCT-F-6	B200-( )	TH27-2( )	L5701-( )-6	AS ABOVE	CF110	C17-21( )	M107	CN101CT

6) The base is moulded from thermoset Diallyl Phthalate (DAP). The 4 or 6 terminals available are half hard brass, .032 inches in diameter, tin plated to MIL-STD 202 Method 208 for solderability.
7) The tuning core is 8-40 shallow thread coated with Teflon.
8) The winding bobbin PB100 is moulded nylon 6/6. CF110 is a phenolic impregnated paper tube.
9) The anti-vibration silicon rubber pad M107 is optional. It will be excluded from assemblies when the "P" is excluded from the assembly number. (ie: L57-2-CT-B-4)