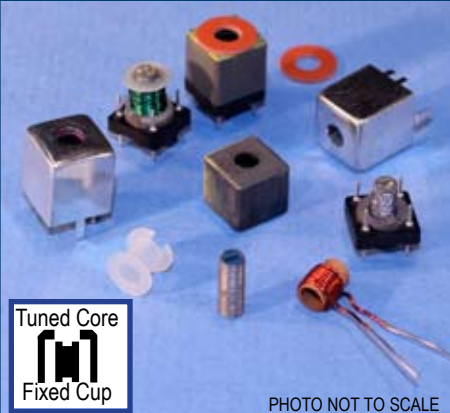


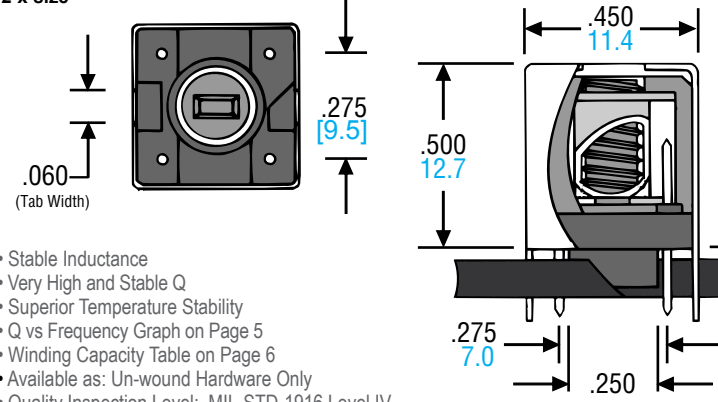
L45 SERIES



Tuned Core
Fixed Cup


PHOTO NOT TO SCALE

Inches/[mm]
±.010/[±.25]
2 x size



- 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

11.5mm

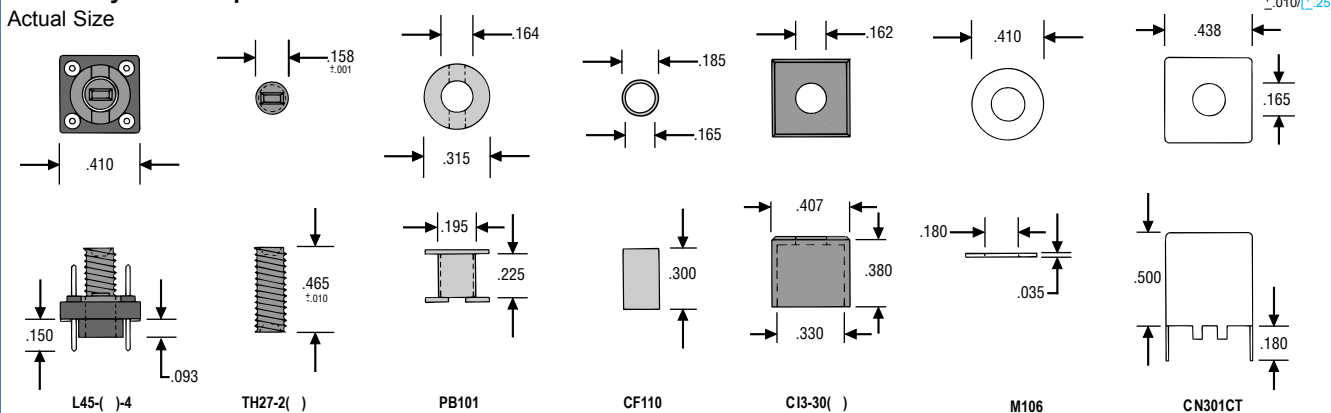


ASSEMBLY PART NO.	COLOR CODE	MAGNETIC MATERIAL(1)	FREQUENCY RANGE(2)	MATERIAL PERMEABILITY	ASSEMBLY AL nH/turns ² (3)	MAX µh 100 turns	MIN uh (4) 100 turns	TEMPERATURE STABILITY(5)
L45-1-PCT-B-4	BLUE	CARBONYL C	.15-2.0 MHz	20.0	17.5	175	58	280 ppm/°C
L45-2-PCT-B-4	RED	CARBONYL E	.25-10 MHz	10.0	12.5	125	52	95 ppm/°C
L45-3-PCT-B-4	GREY	CARBONYL HP	.02-1.0 MHz	35.0	20.4	204	64	370 ppm/°C
L45-6-PCT-B-4	YELLOW	CARBONYL SF	2.0-50 MHz	8.5	11.5	115	47	35 ppm/°C
L45-10-PCT-B-4	BLACK	CARBONYL W	10-100 MHz	6.0	10	100	46	150 ppm/°C
L45-17-PCT-B-4	LAVENDER	CARBONYL	20-200 MHz	4.0	6.7	67	45	50 ppm/°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/°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
L45-1-PCT-B-4	B300-1	TH27-201	L45-1-4	BLUE	PB101	C13-3001	M106	CN301CT
L45-2-PCT-B-4	B300-2	TH27-202	L45-2-4	RED	PB101	C13-3002	M106	CN301CT
L45-3-PCT-B-4	B300-3	TH27-203	L45-3-4	GREY	PB101	C13-3003	M106	CN301CT
L45-3F-PCT-B-4	B300-3	TH27-268	L45-3F-4	GREY/ORANGE	PB101	C13-3003	M106	CN301CT
L45-6-PCT-B-4	B300-6	TH27-206	L45-6-4	YELLOW	PB101	C13-3006	M106	CN301CT
L45-10-PCT-B-4	B300-10	TH27-210	L45-10-4	BLACK	PB101	C13-3010	M106	CN301CT
L45-17-PCT-B-4	B300-17	TH27-217	L45-17-4	LAVENDER	PB101	C13-3017	M106	CN301CT

4 TERMINAL ASSEMBLY WITH PAPER COIL FORM
 L4501(-)PCT-F-4 B300(-) TH27-2() L4501(-)4 AS ABOVE CF110 C13-30() M106 CN301CT

6) The base is moulded from thermoset Diallyl Phthalate (DAP). The 4 terminals available are half hard brass, .024 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 PB101 is moulded nylon 6/6. CF110 is a phenolic impregnated paper tube.
 9) The anti-vibration silicon rubber pad M106 is optional. It will be excluded from assemblies when the "P" is excluded from the assembly number. (ie: L45-2-CT-B-4)