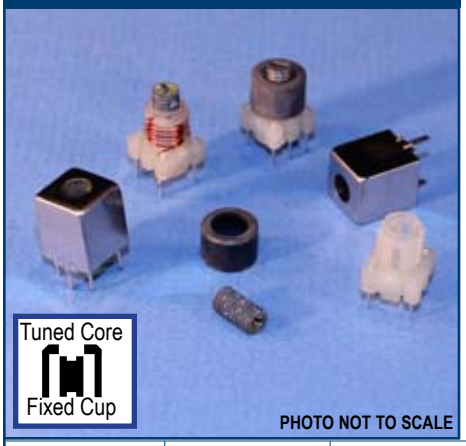
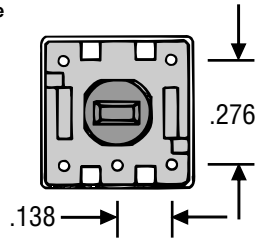
Phone (714) 970-0900
Fax (714) 970-0800

L41 SERIES

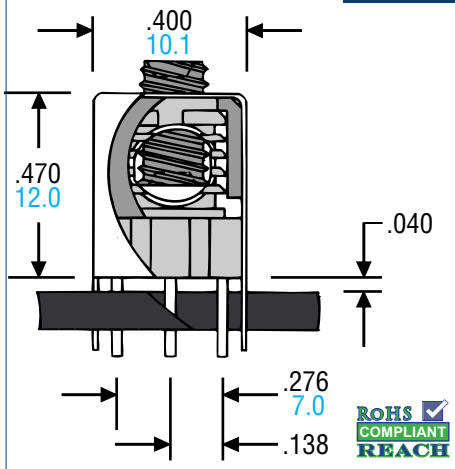


Inches/[mm]
±.010/[±.25]
2 x size



- Stable Inductance
- 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

10mm



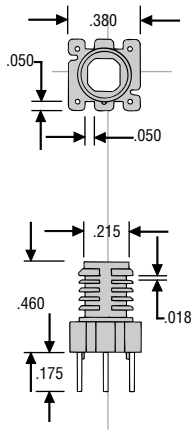
ASSEMBLY PART NO.	COLOR CODE	MAGNETIC MATERIAL(1)	FREQUENCY RANGE(2)	MATERIAL PERMEABILITY	ASSEMBLY A_L nH/turns^2 (3)	MAX µh 100 turns	MIN µh (4) 100 turns	TEMPERATURE STABILITY(5)
L41-2-BT-F-5	RED	CARBONYL E	.25-10 MHZ	10.0	11.5	115	64	95 ppm/°C
L41-3-BT-F-5	GREY	CARBONYL HP	.02-1.0 MHZ	35.0	15	150	66	370 ppm/°C
L41-6-BT-F-5	YELLOW	CARBONYL SF	2.0-50 MHZ	8.5	10.5	105	63	35 ppm/°C
L41-10-BT-F-5	BLACK	CARBONYL W	10-100 MHZ	6.0	8	80	62	150 ppm/°C
L41-17-BT-F-5	LAVENDER	CARBONYL	20-200 MHZ	4	6	60	50	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.

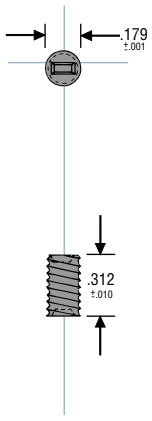
Assembly Sub-components

Actual Size

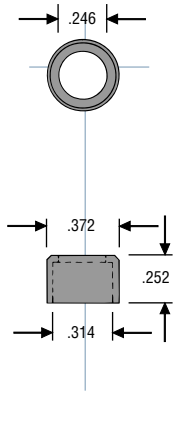
Inches/[mm]
±.010/[±.25]



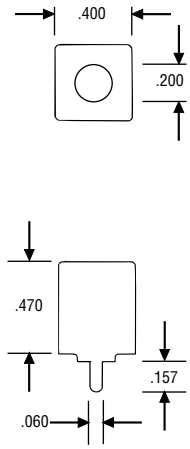
B325



TH35-3( )



C12-40( )



CN325BT

5 TERMINAL ASSEMBLY	BASE ONLY (6)	COLOR CODE	TUNING CORE (7)	CUP CORE	SHIELD CAN
L41-2-BT-F-5	B325	RED	TH35-302	C12-4002	CN325BT
L41-3-BT-F-5	B325	GREY	TH35-303	C12-4003	CN325BT
L41-6-BT-F-5	B325	YELLOW	TH35-306	C12-4006	CN325BT
L41-10-BT-F-5	B325	BLACK	TH35-310	C12-4010	CN325BT
L41-17-BT-F-5	B325	LAVENDER	TH35-317	C12-4017	CN325BT

6) The base and self threading segregated coil form are one piece, moulded from nylon 6/6 and will require careful heat management. The 5 terminals available are half hard brass, .025 inches in diameter, tin plated to MIL-STD 202 Method 208 for solderability.
7) The tuning core is 10-32 shallow thread coated with Teflon.

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