



### L32 SERIES

Tuned Core  
Fixed Cup

PHOTO NOT TO SCALE

Inches/[mm]  
±.010/[±.25]  
2 x size

- 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/turns <sup>2</sup> (3)	MAX μh 100 turns	MIN μh (4) 100 turns	TEMPERATURE STABILITY(5)
L32-2-CT-F-2	RED	CARBONYL E	.25-10 MHZ	10.0	6.8	68	45	95 ppm/°C
L32-3-CT-F-2	GREY	CARBONYL HP	.02-1.0 MHZ	35.0	7.8	78	46	370 ppm/°C
L32-6-CT-F-2	YELLOW	CARBONYL SF	2.0-50 MHZ	8.5	6.1	61	38	35 ppm/°C
L32-10-CT-F-2	BLACK	CARBONYL W	10-100 MHZ	6.0	5.7	57	37	150 ppm/°C
L32-17-CT-F-2	LAVENDER	CARBONYL	20-200 MHZ	4.0	5.2	52	37	50 ppm/°C

- 1) The iron powder or ferrite materials are used in a portion of the base, 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<sup>9</sup> Henries) per turn squared.
- 4) The minimum inductance is measured in microhenries (10<sup>6</sup> 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

### Assembly Sub-components

Actual Size

4 TERMINAL ASSEMBLY (6)	COIL FORM BASE ASSEMBLY (7)	BASE ONLY	BOBBIN WINDING FORM (8)	BOBBIN BASE ASSEMBLY	COLOR CODE	THREADED CORE (9)	CUP CORE	SHIELD CAN
L32-2-CT-F-4	B532-w/CF132	B532	PB132	B532-w/PB132	RED	TH12-302	C9-3302	CN432CT
L32-3-CT-F-4	B532-w/CF132	B532	PB132	B532-w/PB132	GREY	TH12-303	C9-3303	CN432CT
L32-6-CT-F-4	B532-w/CF132	B532	PB132	B532-w/PB132	YELLOW	TH12-306	C9-3306	CN432CT
L32-10-CT-F-4	B532-w/CF132	B532	PB132	B532-w/PB132	BLACK	TH12-310	C9-3310	CN432CT
L32-17-CT-F-4	B532-w/CF132	B532	PB132	B532-w/PB132	LAVENDER	TH12-317	C9-3317	CN432CT

- 6) Coplanarity of the two terminal version is not an issue due to three contact points. The four terminal version's coplanarity will depend on the success of the can tab's (fifth) contact point.
- 7) The base is molded in theroset Diallyl Phthalate (DAP). Two terminal (positions 3 & 4) and four terminal (positions 1, 2, 3 & 4) are available in Alloy 42, 90/10 tin plated to MIL-STD 202, 208 for solderability. The CF117 coilform is a glass reinforced polyester tube with 8-32 internal threads.
- 8) The optional PB132 snap in bobbin is self threading polypropylene. To order, substitute "P" for "F" in the assembly part number.
- 9) The tuning core is a 6-32 shallow thread coated with Teflon.
- 10) The tab on the shield can bends under the base, holding the shield can in place and creating the surface mount connection to the circuit board.