

7mm Toko 7KL, 7KLL Size, Short version of 7KM, 7KMM Inches/[mm] $\pm .010/(\pm .25)$ 2 x size

L30 SERIES

Tuned Core
Fixed Cup

PHOTO NOT TO SCALE

- Toko Equivalent Hardware
- Optional Capacitor Fits in Base
- Q vs Frequency Graph on Page 5
- Winding Capacity Table on Page 6
- Ferrite Tuning Core and Fixed Cup
- Quality Inspection Level: MIL-STD-1916 Level IV
- Available as: Un-wound Hardware or Complete Wound Coils

ASSEMBLY PART NO. (Un-Wound)	COLOR CODE	MAGNETIC MATERIAL(1)	FREQUENCY RANGE(2)	MATERIAL PERMEABILITY	ASSEMBLY AL nH/turns ² (3)	MAX μ H 100 turns	MIN μ H (4) 100 turns	TEMPERATURE STABILITY(5)
L30-53-BT-F-5	None	FERRITE 53	.05-2.0 MHz	44	10.4	104	44	1500 ppm/°C
L30-54-BT-F-5	None	FARRITE 54	2-200 MHz	25	14.8	148	71	1500 ppm/°C

1) The 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 (10⁹ Henries) per turn squared.
 4) The minimum inductance is measured in microhenries (10⁶ 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.

Custom Wound Variable Coils

Example Part Number

Toko Style Code: L30-7KL-L-2.0-7.96-BM
 Lodestone Part Code: L30-7KL-C-22-10.7-A

Inductive Application: Inductance (μ H), Test Freq (MHz)
 Capacitive Application: Self Resonant Freq (MHz), Capacitance (pF)

Winding Style: A, EK,N,N2, Z, HM, BHD, BM, YUK

Internal Capacitors (pF): Selected to meet the specified self-resonant frequency

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Custom Variable Coils are wound to your Inductance and Frequency Specifications, or with Capacitors to your Self-resonant Frequency Specifications.

Assembly Sub-components

Actual Size

5 TERMINAL ASSEMBLY	BASE with COIL FORM (6)	COLOR CODE	THREADED CORE (8)	CUP CORE	SHIELD CAN
L30-53-BT-F-5	B630	None	TH13-53	C9-4053	CN6300BT
L30-54-BT-F-5	B630	None	TH13-54	C9-4054	CN6300BT

(6) *The base and coil form are one piece molded in Polymethylpentene (PMP). The 5 terminals are brass, .02 inches (0.5mm) in diameter, 100% tin plated to meet MIL-STD 202 method 208 for solderability.
 (7) The ferrite tuning cores is 3.3mm metric, shallow thread.
 (8) The base has a cavity for an optional capacitor. .236 [6mm] Long x .08 [2.1mm] Wide x .08 [2.1mm] Deep. Capacitors are not included.