

L38 SERIES

PHOTO NOT TO SCALE

Toko 7P 7PA, 7PL, PLA Size 7mm

Inches/[mm]
±.010/[±.25]
2 x size

- Toko Equivalent Hardware
- Optional Capacitor Fits in Base
- Q vs Frequency Graph on Page 5
- Winding Capacity Table on Page 6
- Ferrite Drum Core and Tuning Cup
- Available as: Un-wound Hardware or Complete Wound Coils

ASSEMBLY PART NO.	COLOR CODE	MAGNETIC MATERIAL(1)	FREQUENCY RANGE(2)	MATERIAL PERMEABILITY	ASSEMBLY AL. nH/turns ² (3)	MAX µh 100 turns	MIN µh (4) 100 turns	TEMPERATURE STABILITY(5)
L38-51-BT-D-5	None	FERRITE 51	.05-2.0 MHz	300	46.3	463	200	1500 ppm/°C
L38-52-BT-D-5	None	FARRITE 52	2-200 MHz	60	32.0	320	164	1500 ppm/°C

1) The ferrite materials are used in the tuning cup and drum 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

L38 - 7PA - L - 2.0 - 7.96 - BM

L38 - 7PA - C - 22 - 10.7 - A

Inductive Application

Inductance (µh)

Test Freq (Mhz)

Winding Style

Capacitive Application

Self Resonant Freq (Mhz)

Capacitance (pf)

Test Frequencies (Mhz): 25.2 (0.1 to 1µh), 7.96 (1µh to 10µh), 2.52 (10 to 100µh), .796 (100µh to 1mh), .252 (1mh to 10mh)

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

Inductance Range **Frequency Range**

Custom Variable Coils are wound to your Inductance and Frequency Specifications, or with Capacitors to your Self-resonant Frequency Specifications. 100 Unit Minimum.

Assembly Sub-components

Actual Size

B380

DR13-1XX

C9-80XX

CN380BT

5 TERMINAL ASSEMBLY	BASE with DRUM CORE (6)	COLOR CODE	DRUM CORE (8)	CUP CORE	SHIELD CAN
L38-51-BT-D-5	B380	None	DR13-151	C9-8051	CN480BT
L38-52-BT-D-5	B380	None	DR13-152	C9-8052	CN480BT

6) "The base is molded in a phenolic thermoset. The 5 terminals are brass, ".020 inches (0.5mm) in diameter, 100% tin plated to meet MIL-STD 202 method 208 for solderability." 7) The ferrite drum core is attached to the thermoset base.
 8) Threaded cup matches the internal threads in the Cup Form 9) The base has a cavity for an optional capacitor .225 [5.8mm] Long x .095 [2.4mm] Wide x .110 [2.8mm] Deep. Capacitors are not included.