



# Tunable RF Inductors – 148 Series



With an overall height of only 0.300", these tunable coils are ideal for applications where low-profile circuit boards are essential.

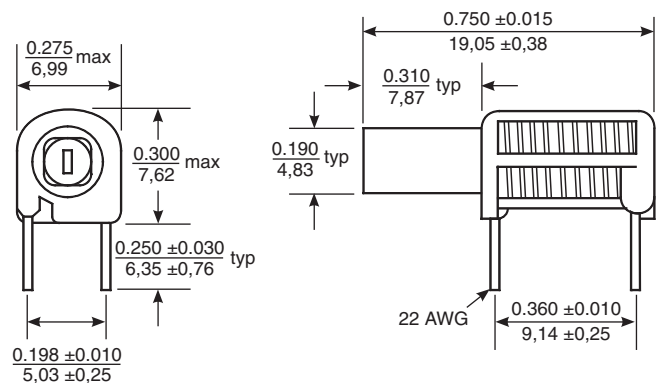
The windings are precision molded in plastic to guarantee a constant winding pitch and a consistent relationship to the printed circuit board. Tuning is done by means of a threaded Carbonyl J core.

Coilcraft **Designer's Kit M304** contains three samples each of the values shown plus 20 values from the 132 Series of low-profile, high Q fixed inductors. To order, contact Coilcraft or visit <http://order.coilcraft.com>.

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**PRECISION** REPEATABLE  
MEASUREMENTS  
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Part number <sup>1</sup>	Color	Turns	Inductance (nH) <sup>2</sup>			Q min <sup>4</sup> at L nom	No core SRF min (MHz)	
			no core	min <sup>3</sup>	nom			max <sup>3</sup>
148-01J12L	Brown	1½	35	38	39	40	88 @ 50 MHz	3200
148-02J12L	Red	2½	44	46	52	58	96 @ 50 MHz	1560
148-03J12L	Orange	3½	56	60	73	86	106 @ 50 MHz	1200
148-04J12L	Yellow	4½	74	77	101	125	112 @ 50 MHz	980
148-05J12L	Green	5½	92	96	130	164	112 @ 50 MHz	820
148-06J12L	Blue	6½	114	120	170	220	112 @ 50 MHz	720
148-07J12L	Violet	7½	142	154	222	290	110 @ 50 MHz	620
148-08J12L	Gray	8½	168	176	262	346	106 @ 25 MHz	570
148-09J12L	White	9½	198	208	310	410	104 @ 25 MHz	490
148-10J12L	Black	10½	237	250	375	500	90 @ 25 MHz	450
148-11J12L	Brown	11½	276	290	435	580	84 @ 25 MHz	410
148-12J12L	Red	12½	315	338	500	666	66 @ 25 MHz	350
148-13J12L	Orange	13½	344	362	540	710	64 @ 25 MHz	320

- To order fixed inductance parts without cores, eliminate the "J12", e.g. 148-13L.
- Inductance and Q readings taken on Agilent/HP 4342-A Q meter with 16 AWG tinned copper 1/2" long soldered along leads and bent at 90° 1/4" down from standoffs.
- L min measured with core halfway out top of form. L max measured with core centered in the windings.
- Inductance values at 50 MHz calculated from C<sub>p</sub> readings. Inductance values at 25 MHz read at standard Q meter frequency (blue line).
- Core material: Carbonyl J. Core length: 3/8".
- Operating temperature range -40°C to +85°C.
- Electrical specifications at 25°C.



**Weight:** 0.7 – 1.2 g  
**Terminations:** Tin-silver over copper

**Coilcraft**®

Specifications subject to change without notice.  
Please check our website for latest information.

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