

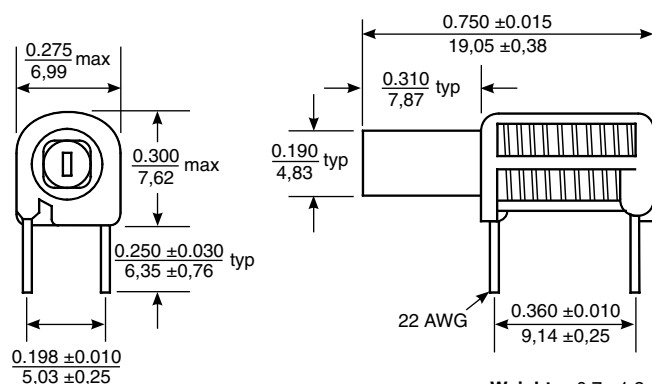
Tunable RF Inductors – 148 Series



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 M104** contains three samples each of 13 standard values plus 20 values from the 132 Series of low-profile, high Q fixed inductors. To order, contact Coilcraft or visit <http://order.coilcraft.com>.



Weight: 0.7 – 1.2 g

Part number	Color	Turns	Inductance (nH) ¹			Q min ¹ at L nom	No core SRF min (MHz)	
			No core	min ²	nom			max
148-01J12	Brown	1½	35	38	39	40	88 @ 50 MHz	3200
148-02J12	Red	2½	44	46	52	58	96 @ 50 MHz	1560
148-03J12	Orange	3½	56	60	73	86	106 @ 50 MHz	1200
148-04J12	Yellow	4½	74	77	101	125	112 @ 50 MHz	980
148-05J12	Green	5½	92	96	130	164	112 @ 50 MHz	820
148-06J12	Blue	6½	114	120	170	220	112 @ 50 MHz	720
148-07J12	Violet	7½	142	154	222	290	110 @ 50 MHz	620
148-08J12	Gray	8½	168	176	262	346	106 @ 25 MHz	570
148-09J12	White	9½	198	208	310	410	104 @ 25 MHz	490
148-10J12	Black	10½	237	250	375	500	90 @ 25 MHz	450
148-11J12	Brown	11½	276	290	435	580	84 @ 25 MHz	410
148-12J12	Red	12½	315	338	500	666	66 @ 25 MHz	350
148-13J12	Orange	13½	344	362	540	710	64 @ 25 MHz	320

1. 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.

2. L min measured with core halfway out top of form.

3. Inductance values at 50 MHz calculated from C_p readings. Inductance values at 25 MHz read at standard Q meter frequency (blue line).

4. Core material: Carbonyl J. Core length: 3/8".

5. Operating temperature range -40°C to +85°C.

6. Electrical specifications at 25°C.

COILCRAFT ACCURATE
PRECISION REPEATABLE
MEASUREMENTS
SEE INDEX **TEST FIXTURES**

Coilcraft[®]

Specifications subject to change without notice. Document 111 Revised 11/26/02

1102 Silver Lake Road Cary, Illinois 60013 Phone 847/639-6400 Fax 847/639-1469

E-mail info@coilcraft.com Web <http://www.coilcraft.com>