

10mm Tunable Coils – 142, 143, 144 Series



These Coilcraft variable inductors are precision molded in plastic to assure constant winding pitch and a consistent relationship to the printed circuit board.

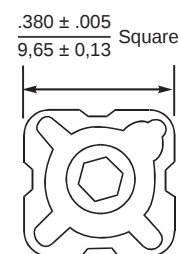
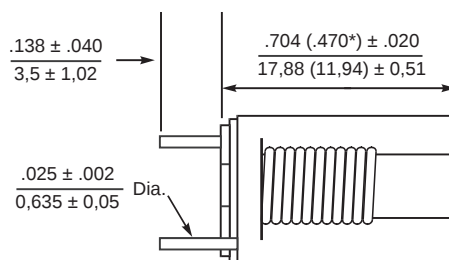
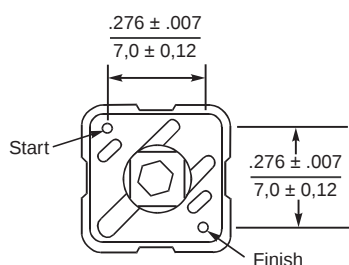
Extremely economical, even in small quantities, the coils come in standard inductance values from 0.05 μH to 1.5 μH . 144 Series parts are available with a tap to meet specific requirements.

Tuning is done by means of a threaded powdered iron core with a hex socket for easy, positive adjustment. Plated brass shield cans with solderable tabs are optional.

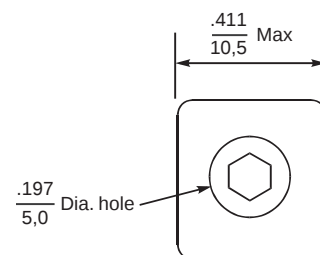
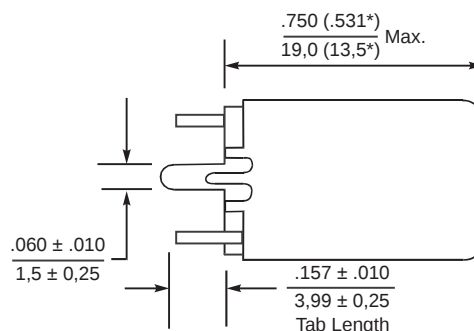
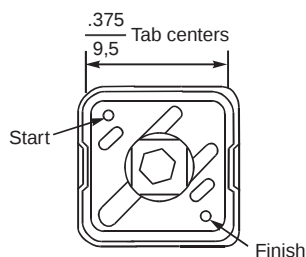
Coilcraft **Designer's Kit M102** contains samples of all standard 10mm and 7mm tunable inductors. To order, contact Coilcraft.

TRITUNER 3 TOOLS IN 1
DOCUMENT 127
TUNING WRENCH

UNSHIELDED STYLES



WITH SHIELD CAN



*142 Series Only

Coilcraft

Specifications subject to change without notice. Document 108-1 Revised 7/8/97

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UNSHIELDED

Part Number	Color	Turns	No Core (μ H) Ref	L Min (μ H)	L Nom (μ H)	L Max (μ H)	Min Q @ L Nom	No Core SRF (MHz) Min.
144-01J12	Brown	1½	.053	.056	.059	.062	140 @ 40 MHz	1800
144-02J12	Red	2½	.075	.079	.088	.098	145 "	1150
144-03J12	Orange	3½	.099	.104	.123	.142	147 "	900
144-04J12	Yellow	4½	.126	.132	.164	.195	150 "	765
144-05J12	Green	5½	.154	.162	.207	.252	154 "	670
144-06J12	Blue	6½	.182	.193	.250	.306	154 "	610
144-07J12	Violet	7½	.214	.240	.298	.356	158 "	525
144-08J12	Gray	8½	.245	.283	.344	.405	160 "	465
144-09J12	White	9½	.274	.328	.387	.446	162 "	420
144-10J12	Black	10½	.307	.391	.442	.493	162 "	390
142-01J08	Brown	1½	.063	.063	.065	.068	115 "	980
142-02J08	Red	2½	.092	.093	.100	.107	118 "	600
142-03J08	Orange	3½	.127	.133	.145	.157	120 "	470
142-04J08	Yellow	4½	.166	.174	.196	.218	125 "	420
142-05J08	Green	5½	.212	.226	.256	.287	122 "	370
142-06J08	Blue	6½	.258	.275	.315	.355	112 "	340
142-07J08	Violet	7½	.307	.330	.378	.427	112 "	310
142-08J08	Gray	8½	.357	.396	.450	.504	106 "	290
142-09J08	White	9½	.412	.473	.520	.567	110 "	270
142-10J08	Black	10½	.464	.550	.592	.635	104 "	260
143-09J12	White	9½	.385	.404	.550	.693	86 "	280
143-10J12	Black	10½	.438	.460	.624	.788	90 "	270
143-11J12	Brown	11½	.490	.515	.708	.900	78 "	250
143-12J12	Red	12½	.545	.578	.764	.950	84 "	240
143-13J12	Orange	13½	.600	.673	.845	1.02	84 "	245
143-14J12	Yellow	14½	.645	.726	.908	1.09	82 "	340
143-15J12	Green	15½	.692	.803	.978	1.15	90 "	235
143-16J12	Blue	16½	.765	.891	1.08	1.27	74 "	225
143-17J12	Violet	17½	.830	1.01	1.18	1.34	74 "	215
143-18J12	Gray	18½	.895	1.10	1.25	1.40	92 "	195
143-19J12	White	19½	.910	1.20	1.32	1.44	98 "	190
143-20J12	Black	20½	.960	1.30	1.40	1.50	92 "	185

SHIELDED

Part Number	Color	Turns	No Core (μ H) Ref	L Min (μ H)	L Nom (μ H)	L Max (μ H)	Min Q @ L Nom	No Core SRF (MHz) Min.
144-01J12S	Brown	1½	.050	.052	.053	.054	97 @ 40 MHz	2200
144-02J12S	Red	2½	.067	.070	.074	.078	98 "	1200
144-03J12S	Orange	3½	.088	.092	.099	.106	98 "	920
144-04J12S	Yellow	4½	.106	.111	.122	.133	100 "	790
144-05J12S	Green	5½	.126	.132	.149	.165	101 "	685
144-06J12S	Blue	6½	.147	.154	.175	.196	106 "	625
144-07J12S	Violet	7½	.168	.176	.200	.223	104 "	530
144-08J12S	Gray	8½	.190	.202	.226	.250	108 "	480
144-09J12S	White	9½	.210	.239	.256	.274	108 "	435
144-10J12S	Black	10½	.232	.270	.282	.295	106 "	420
142-01J08S	Brown	1½	.058	.058	.0595	.061	82 "	1230
142-02J08S	Red	2½	.081	.084	.086	.089	83 "	650
142-03J08S	Orange	3½	.110	.115	.120	.121	85 "	550
142-04J08S	Yellow	4½	.140	.147	.146	.160	88 "	460
142-05J08S	Green	5½	.174	.182	.197	.205	94 "	410
142-06J08S	Blue	6½	.210	.220	.240	.248	94 "	370
142-07J08S	Violet	7½	.247	.259	.280	.290	90 "	330
142-08J08S	Gray	8½	.284	.299	.322	.337	86 "	320
142-09J08S	White	9½	.319	.338	.363	.377	88 "	310
142-10J08S	Black	10½	.357	.382	.410	.422	82 "	290
143-09J12S	White	9½	.300	.315	.369	.423	80 "	303
143-10J12S	Black	10½	.338	.355	.416	.477	82 "	290
143-11J12S	Brown	11½	.377	.396	.468	.540	78 "	270
143-12J12S	Red	12½	.412	.433	.509	.585	80 "	265
143-13J12S	Orange	13½	.452	.475	.556	.637	80 "	265
143-14J12S	Yellow	14½	.490	.515	.604	.693	78 "	260
143-15J12S	Green	15½	.522	.583	.660	.738	80 "	250
143-16J12S	Blue	16½	.575	.638	.720	.801	76 "	245
143-17J12S	Violet	17½	.612	.693	.770	.846	76 "	240
143-18J12S	Gray	18½	.650	.754	.814	.874	82 "	215
143-19J12S	White	19½	.675	.792	.846	.900	80 "	210
143-20J12S	Black	20½	.715	.847	.896	.945	74 "	200

- Core material: Carbonyl J Core length: 142 Series - ¼" 143, 144 Series - 3/8"
- Inductance and Q readings taken on Boonton 260-A Q meter with 16 AWG tinned copper ½" long soldered along leads and bent at 90° ¼" down from stand offs.
- All inductance values greater than 0.1 μ H read at recommended Q meter frequency; those below 0.1 μ H calculated from readings taken at 50 MHz.
- L Min measured with core halfway out top of form.
- Taps available on 144 series parts at ¼, ⅓, ⅕ and ⅞ turn increments.
- Operating temperature range -40°C to +85°C.

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