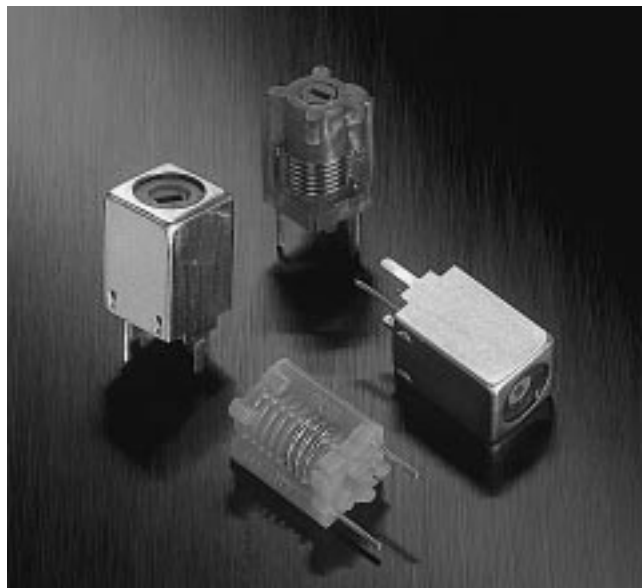


7mm Tunable RF Coils – 146, 150 Series



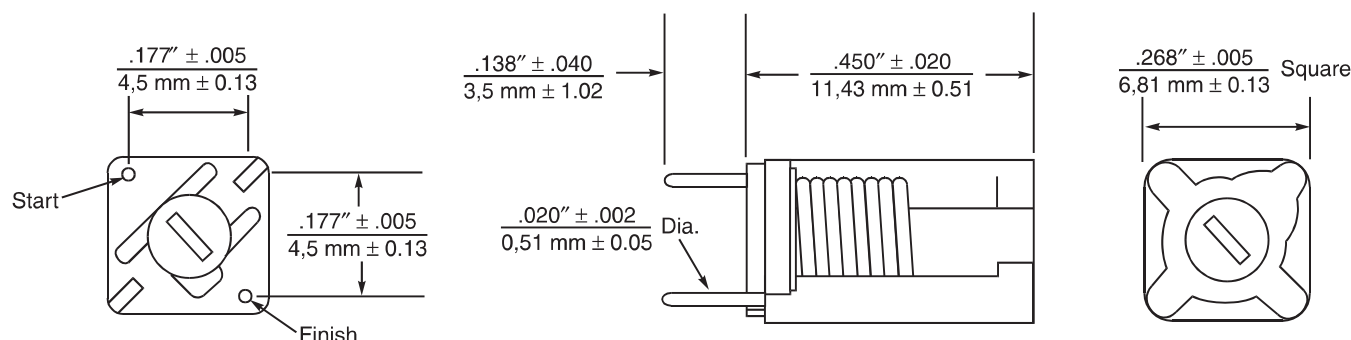
Coilcraft tunable coils provide the compactness of a 7 mm coil and the low drift reliability of an insert molded coil.

Standard inductance values range from less than $0.05 \mu\text{H}$ to over $0.5 \mu\text{H}$. 150 series coils with a tap are also available to meet specific requirements.

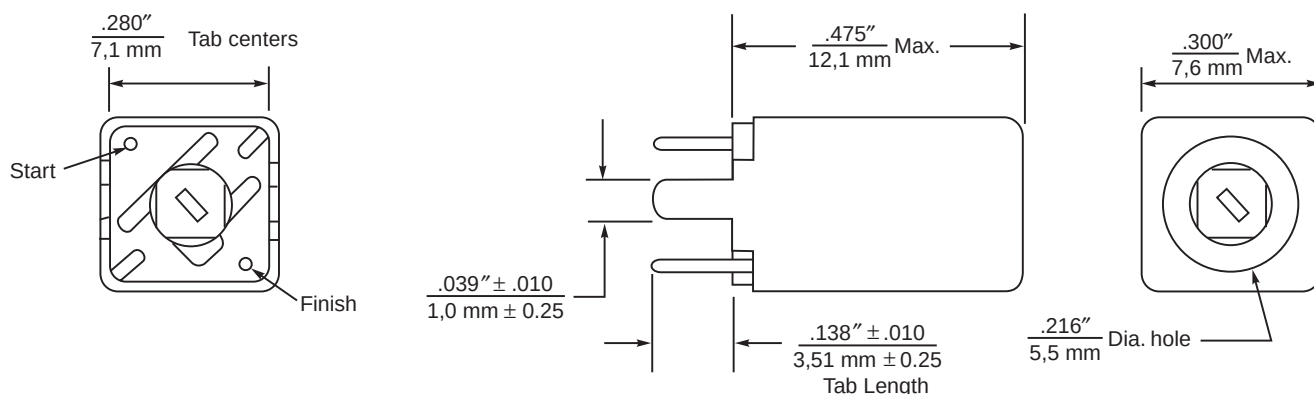
The windings of these economical coils are precision molded into a single piece of polypropylene for mechanical and electrical stability. Optional plated brass shield cans with solderable tabs provide integral shielding and additional mounting stability.

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

UNSHIELDED STYLES



WITH SHIELD CAN



Coilcraft

Specifications subject to change without notice. Document 109-1 Revised 7/8/97

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7mm Tunable RF Coils – 146, 150 Series

TRITUNER 3 TOOLS IN 1
DOCUMENT 127
TUNING WRENCH

UNSHIELDED

Part Number	Color	Turns	No Core (uH) Ref	L Min (uH)	L Nom (uH)	L Max (uH)	Min Q @ L Nom	No Core SRF (MHz) Min.
150-01J08	Brown	1½	.0445	.046	.049	.052	88 @ 50 MHz	2000
150-02J08	Red	2½	.0585	.062	.070	.078	100 "	1300
150-03J08	Orange	3½	.0775	.082	.098	.114	108 "	1000
150-04J08	Yellow	4½	.0945	.108	.130	.154	114 "	780
150-05J08	Green	5½	.116	.137	.165	.193	114 "	650
150-06J08	Blue	6½	.138	.176	.205	.234	112 "	550
150-07J08	Violet	7½	.156	.222	.245	.268	108 "	510
146-01J08	Brown	1½	.045	.047	.050	.053	90 @ 50 MHz	1300
146-02J08	Red	2½	.065	.068	.078	.088	100 "	780
146-03J08	Orange	3½	.086	.090	.108	.126	100 "	560
146-04J08	Yellow	4½	.111	.117	.146	.175	94 "	475
146-05J08	Green	5½	.140	.148	.190	.232	88 "	430
146-06J08	Blue	6½	.167	.188	.240	.292	78 "	390
146-07J08	Violet	7½	.198	.231	.292	.350	72 "	350
146-08J08	Gray	8½	.228	.272	.342	.412	68 "	330
146-09J08	White	9½	.264	.330	.405	.480	66 @ 40 MHz	320
146-10J08	Black	10½	.292	.390	.465	.540	60 "	290

SHIELDED

Part Number	Color	Turns	No Core (uH) Ref	L Min (uH)	L Nom (uH)	L Max (uH)	Min Q @ L Nom	No Core SRF (MHz) Min.
150-01J08S	Brown	1½	.0425	.0435	.0445	.0445	72 @ 50 MHz	1900
150-02J08S	Red	2½	.054	.056	.060	.064	80 "	1450
150-03J08S	Orange	3½	.068	.071	.076	.081	84 "	1100
150-04J08S	Yellow	4½	.0825	.086	.095	.104	85 "	900
150-05J08S	Green	5½	.0955	.107	.115	.123	84 "	750
150-06J08S	Blue	6½	.109	.125	.134	.143	82 "	620
150-07J08S	Violet	7½	.123	.150	.156	.162	80 "	560
146-01J08S	Brown	1½	.044	.045	.046	.047	76 @ 50 MHz	1550
146-02J08S	Red	2½	.059	.062	.065	.068	78 "	850
146-03J08S	Orange	3½	.075	.080	.085	.090	78 "	660
146-04J08S	Yellow	4½	.095	.100	.110	.120	78 "	570
146-05J08S	Green	5½	.115	.120	.135	.150	76 "	510
146-06J08S	Blue	6½	.136	.142	.163	.184	72 "	470
146-07J08S	Violet	7½	.155	.172	.194	.216	68 "	430
146-08J08S	Gray	8½	.176	.200	.224	.248	66 "	400
146-09J08S	White	9½	.202	.234	.260	.284	60 "	360
146-10J08S	Black	10½	.224	.260	.288	.315	56 "	330

NOTES

- Core material: Carbonyl J
Core length: 1/4"
- Inductance and Q readings taken on Boonton 260-A Q meter with 16 AWG tinned copper 1/2" long soldered along leads and bent at 90° 1/4" down from stand offs.
- All inductance values greater than 0.1 uH read at recommended Q meter frequency.
- All inductance values below 0.1 uH calculated from readings taken at 50 MHz.
- L Min measured with core halfway out top of form.
- Taps available in 150 series parts at 1/8, 3/8, 5/8 and 7/8 turns.
- Operating temperature range –40°C to +85°C.

COILCRAFT ACCURATE
PRECISION REPEATABLE
MEASUREMENTS
DOC. 126 **TEST FIXTURES**

Coilcraft

Specifications subject to change without notice. Document 109-2 Revised 11/17/97

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