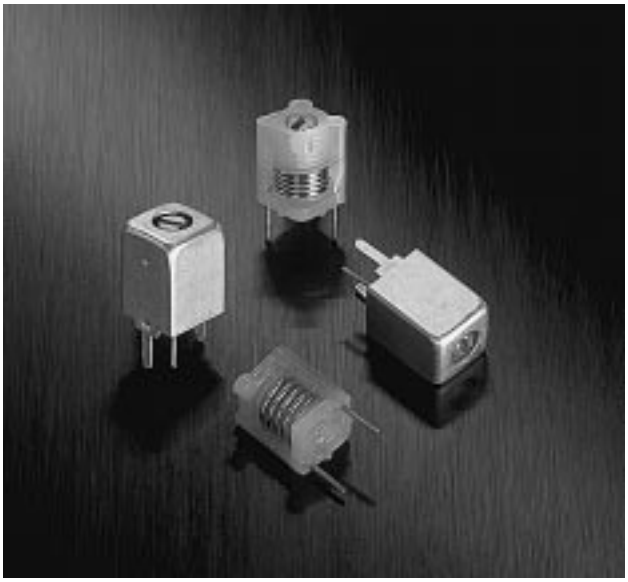
5mm Tunable RF Inductor–164, 165 Series



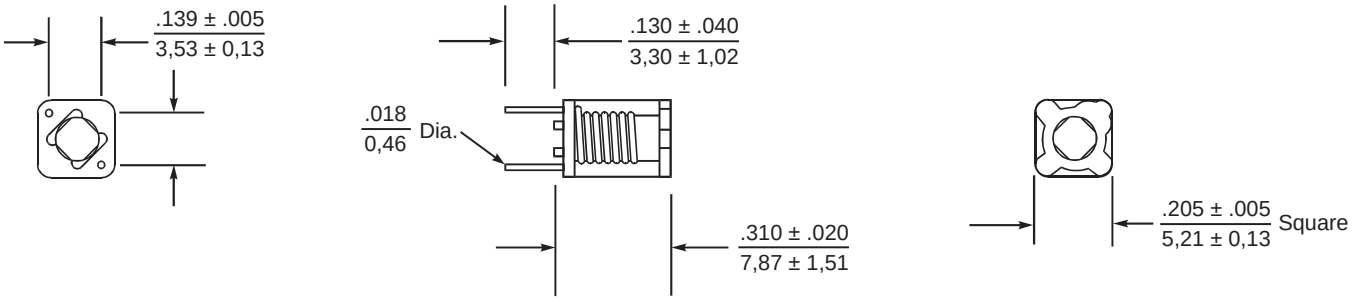
Coilcraft tunable inductors provide the compactness of a 5mm coil and the low drift reliability of an insert molded coil.

Standard inductance values range from 9nH to over 280nH.

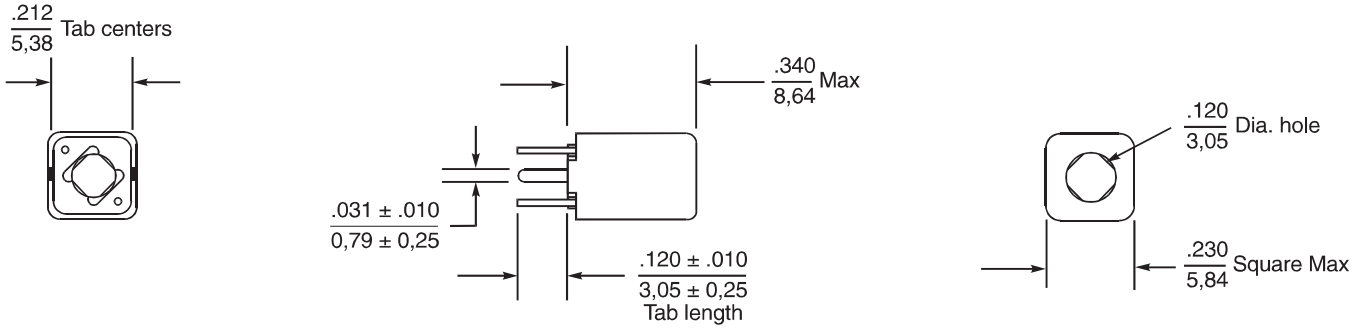
The windings of these economical coils are precision molded into a single piece of polypropylene/nylon/PET for mechanical and electrical stability. Optional plated brass shield cans with solderable tabs provide integral shielding and additional mounting stability.

Coilcraft's **Designer's Kit M105** contains samples of all standard values. To order, please contact Coilcraft.

UNSHIELDED STYLES



SHIELDED STYLES



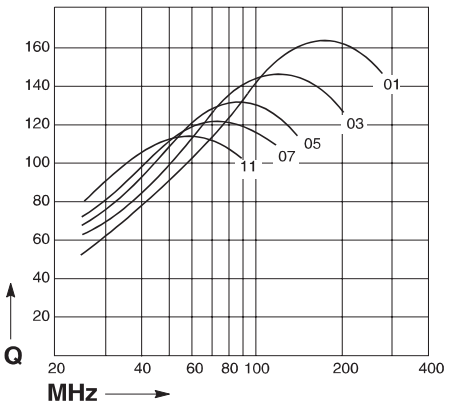
1102 Silver Lake Road Cary, Illinois 60013 **Phone** 847/639-6400 **Fax** 847/639-1469
E-mail info@coilcraft.com **Data by Fax** 800/651-6974 **Web** http://www.coilcraft.com

5mm Tunable RF Inductor – Unshielded

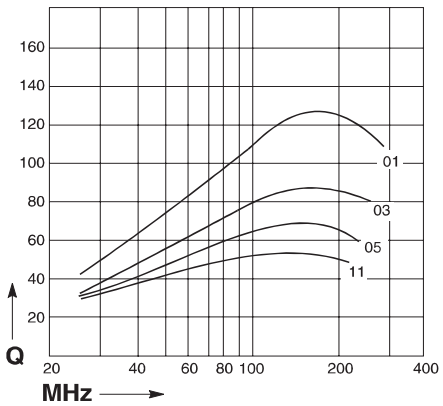
Part Number	Color	Turns	No Core L (nH)	No Core Q (Min)	@ L Max L (nH)	@ L Max Q (Min)	@ L Min L (nH)	@ L Min Q (Min)	Freq. (MHz)	No Core SRF (MHz) Min
164-01A06	Brown	1½	19	145	19	145	16	112	150	2000
164-02A06	Red	2½	34	138	34	138	26	96	150	1260
164-03A06	Orange	3½	55	130	55	130	38	79	150	960
164-04A06	Yellow	4½	77	119	77	119	52	72	150	850
164-05A06	Green	5½	101	108	99	86	65	64	150	770
164-06A06	Blue	6½	128	107	126	75	83	60	100	730
164-07A06	Violet	7½	156	106	150	68	97	57	100	640
164-08A06	Grey	8½	183	100	178	62	112	53	100	570
164-09A06	White	9½	216	100	190	62	131	53	100	540
164-10A06	Black	10½	248	92	223	55	148	51	100	490
164-11A06	Brown	11½	281	92	246	55	170	51	100	360
165-00A06	Black	½	9	147	9	147	9	131	150	6000
165-01A06	Brown	1½	18	145	18	145	15	112	150	2850
165-02A06	Red	2½	32	143	32	143	25	92	150	1860
165-03A06	Orange	3½	48	138	45	135	33	84	150	1410
165-04A06	Yellow	4½	64	133	60	114	43	76	150	1130
165-05A06	Green	5½	83	125	78	110	54	73	150	820
165-06A06	Blue	6½	103	120	90	94	68	70	150	800
165-07A06	Violet	7½	122	115	105	92	79	69	150	770

Q vs FREQUENCY

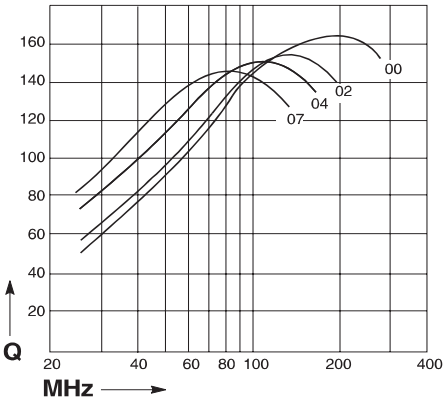
164 SERIES NO CORE



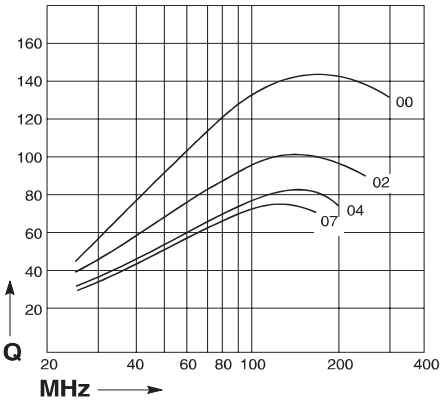
164 SERIES AL CORE



165 SERIES NO CORE



165 SERIES AL CORE



NOTES:

—Core: Aluminum .187″ long
—Inductance: Measured on HP4286A Impedance Analyzer with 16092A Spring Clip Fixture
—L Max: Measured with core halfway out top of form
—L Min: Measured with core centered in winding
—Q: Measured on HP4286A with 16092A fixture, direct connect to HP4342A Q-Meter and Meguro MQ-171 Q-Meter with 0.5″ bus bars
—Operating temperature range –40°C to +85°C.

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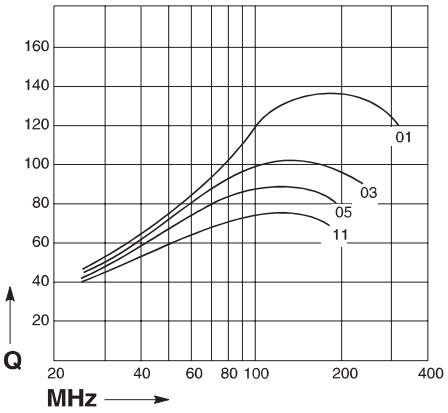
5mm Tunable RF Inductor – Shielded

TRITUNER 3 TOOLS IN 1 DOCUMENT 127
TUNING WRENCH

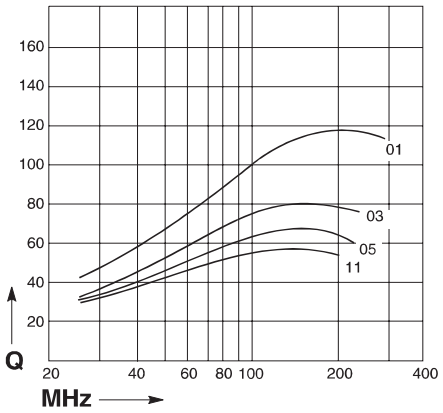
Part Number	Color	Turns	No Core L (nH)	No Core Q (Min)	@ L Max L (nH)	@ L Max Q (Min)	@ L Min L (nH)	@ L Min Q (Min)	Freq. (MHz)	No Core SRF (MHz) Min
164-01A06S	Brown	1½	16	124	16	124	14	106	150	2100
164-02A06S	Red	2½	27	108	27	108	22	89	150	1300
164-03A06S	Orange	3½	41	92	41	92	32	72	150	1100
164-04A06S	Yellow	4½	56	86	56	84	43	66	150	940
164-05A06S	Green	5½	71	80	71	79	53	60	150	980
164-06A06S	Blue	6½	88	79	80	77	65	59	150	800
164-07A06S	Violet	7½	105	75	101	70	76	54	100	750
164-08A06S	Grey	8½	122	74	117	64	87	54	100	580
164-09A06S	White	9½	141	71	134	62	100	53	100	550
164-10A06S	Black	10½	160	69	150	60	113	51	100	490
164-11A06S	Brown	11½	179	69	164	60	127	51	100	400
165-00A06S	Black	½	9	138	9	138	9	121	150	6000
165-01A06S	Brown	1½	16	124	16	124	14	104	150	2570
165-02A06S	Red	2½	25	110	25	110	21	87	150	1670
165-03A06S	Orange	3½	35	104	33	102	28	78	150	1230
165-04A06S	Yellow	4½	46	97	41	90	35	69	150	1150
165-05A06S	Green	5½	57	92	50	82	43	67	150	820
165-06A06S	Blue	6½	68	86	59	75	52	65	150	800
165-07A06S	Violet	7½	80	85	70	74	60	64	150	770

Q vs FREQUENCY

164 SERIES NO CORE



164 SERIES AL CORE



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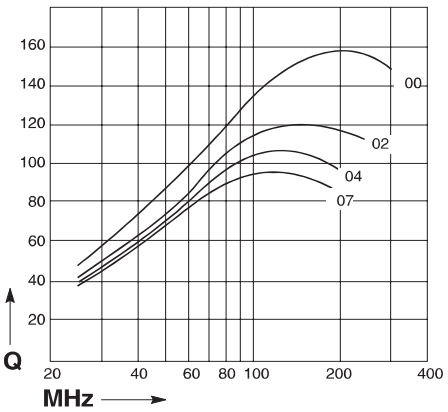
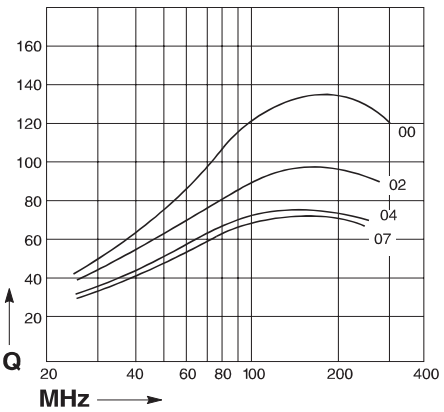
COILCRAFT ACCURATE REPEATABLE PRECISION MEASUREMENTS
DOC. 126 TEST FIXTURES

165 SERIES NO CORE



165 SERIES AL CORE



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