

## Features

- Direct Coil Craft Replacement
- Shielded
- High Q
- Wide Inductance Range

## Descriptions

The M7HT-SERIES are a compact 7 mm shielded tunable RF coils. These coils are precision wound and enclosed in a tin plated copper can to provide optimal shielding

## Electrical Specifications

Part NO.	Color	Turns	No core L <sup>1</sup> nom(nH)	L min <sup>2</sup> (nH)	L nom (nH)	L max (nH)	Q min @ L nom	No core SRF min(MHz)	DCR max (mOhm)	Irms <sup>3</sup> (A)
M7HT - 001A	Brown	1½	42.5	43.5	44.5	44.5	72@50MHz	1900	8.0	11.0
M7HT - 002A	Red	2½	54	56	60	64	80@50MHz	1450	9.0	10.5
M7HT - 003A	Orange	3½	68	71	76	81	84@50MHz	1100	10.5	9.8
M7HT - 004A	Yellow	4½	82.5	86	95	104	85@50MHz	900	11.6	9.3
M7HT - 005A	Green	5½	95.5	107	115	123	84@50MHz	750	13.2	8.7
M7HT - 006A	Blue	6½	109	125	134	143	82@50MHz	620	14.7	8.2
M7HT - 007A	Violet	7½	123	150	156	162	80@50MHz	560	16.0	7.9
M7HT - 001B	Brown	1½	44	45	46	47	76@50MHz	1550	8.0	11.0
M7HT - 002B	Red	2½	59	62	65	68	78@50MHz	850	9.0	10.5
M7HT - 003B	Orange	3½	75	80	85	90	78@50MHz	660	10.5	9.8
M7HT - 004B	Yellow	4½	95	100	110	120	78@50MHz	570	11.6	9.3
M7HT - 005B	Green	5½	115	120	135	150	76@50MHz	510	13.0	8.8
M7HT - 006B	Blue	6½	136	142	163	184	72@50MHz	470	14.5	8.3
M7HT - 007B	Violet	7½	155	172	194	216	68@50MHz	430	15.6	8.0
M7HT - 008B	Gray	8½	176	200	224	248	66@50MHz	400	18.0	7.5
M7HT - 009B	White	9½	202	234	260	284	60@50MHz	360	19.4	7.2
M7HT - 010B	Black	10½	224	260	288	315	56@50MHz	330	21.0	6.8

### Notes:

1. Inductance and Q readings taken on Boonton 260-A Q meter with 16AWG tinned copper 1/2" long soldered along leads and bent at 90° 1/4" down from standoffs. All inductance values greater than 0.1µH read at recommended Q meter frequency. All inductance values below 0.1µH calculated from readings taken at 50 MHz.
2. L min measured with core halfway out top of form.
3. Average current for a 40 ° C rise above 25° C ambient.

4. Shield Can Tab's: Tin-Silver Over Nickel Over Brass.
5. Series A Leads: Matte Tin Over Copper.
6. Series B Leads: Tin-Silver Over Copper.
7. Operating Temperature Range -40° C to +85° C.
8. Resistance to Soldering Heat: Wave Solder Only.

## Mechanical Drawing

