

MOX-TMI-7S-SERIES

MoxiE[®]
INDUCTOR CORPORATION

Shielded 7mm Tunable RF Coils

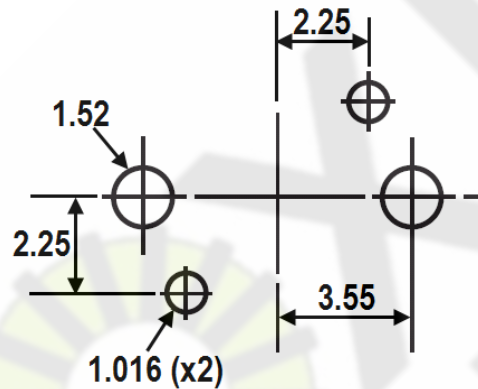
MoxiE's MOX-TMI-7S series of tunable RF coils are engineered with a precision molded polypropylene case which provides electrical & mechanical stability.

Features:

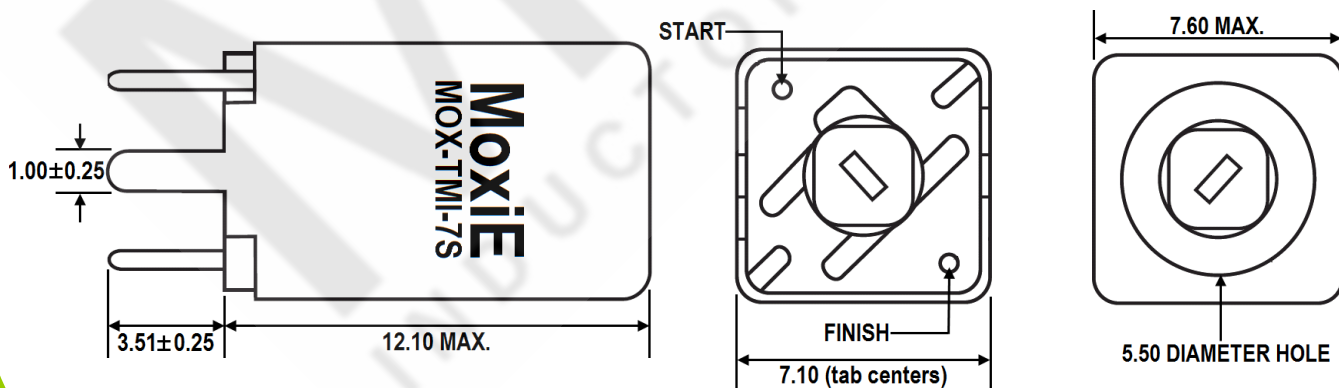
- Shielded construction.
- Low drift reliability.
- Available without cores for use as fixed inductors.
- RoHS compliant.
- MoxiE Inductor Corporation custom designs available.



RECOMMENDED BOARD LAYOUT



MECHANICAL DIMENSIONS (mm)



MOX-TMI-7S-SERIES



ELECTRICAL SPECIFICATIONS @ 25°C

MoxiE Part Number	Turns	No core L Nom. (nH)	L Min. (nH)	L Nom. (nH)	L Max. (nH)	Q min @ L Nom.	No core SRF min (MHz)	DCR Max. (mΩ)	Irms	Package Color
MOX-TMI-7S-B1R5A	1.5	42.5	43.5	44.5	44.5	72 @ 50 MHz	1900	8.0	11.0	Brown
MOX-TMI-7S-R2R5A	2.5	54.0	56.0	60.0	64.0	80 @ 50 MHz	1450	9.0	10.5	Red
MOX-TMI-7S-O3R5A	3.5	68.0	71.0	76.0	81.0	84 @ 50 MHz	1100	10.5	9.8	Orange
MOX-TMI-7S-Y3R5A	4.5	82.5	86.0	95.0	104	85 @ 50 MHz	900	11.6	9.3	Yellow
MOX-TMI-7S-G5R5A	5.5	95.5	107	115	123	84 @ 50 MHz	750	13.2	8.7	Green
MOX-TMI-7S-B6R5A	6.5	109	125	134	143	82 @ 50 MHz	620	14.7	8.2	Blue
MOX-TMI-7S-V7R5A	7.5	123	150	156	162	80 @ 50 MHz	560	16.0	7.9	Violet
MOX-TMI-7S-B1R5B	1.5	44.0	45.0	46.0	47.0	76 @ 50 MHz	1550	8.0	11.0	Brown
MOX-TMI-7S-R2R5B	2.5	59.0	62.0	65.0	68.0	78 @ 50 MHz	850	9.0	10.5	Red
MOX-TMI-7S-O3R5B	3.5	75.0	80.0	85.0	90.0	78 @ 50 MHz	660	10.5	9.8	Orange
MOX-TMI-7S-Y4R5B	4.5	95.0	100	110	120	78 @ 50 MHz	570	11.6	9.3	Yellow
MOX-TMI-7S-G5R5B	5.5	115	120	135	150	76 @ 50 MHz	510	13.0	8.8	Green
MOX-TMI-7S-B6R5B	6.5	136	142	163	184	72 @ 50 MHz	470	14.5	8.3	Blue
MOX-TMI-7S-V7R5B	7.5	155	172	194	216	68 @ 50 MHz	430	15.6	8.0	Violet
MOX-TMI-7S-G8R5B	8.5	176	200	224	248	66 @ 50 MHz	400	18.0	7.5	Gray
MOX-TMI-7S-W9R5B	9.5	202	234	260	284	60 @ 50 MHz	360	19.4	7.2	White
MOX-TMI-7S-B10R5B	10.5	224	260	288	315	56 @ 50 MHz	330	21.0	6.8	Black

MOXIE NOTES:

- Average current for a 40°C rise above 25°C ambient.
- Operating temperature range -40°C to +85°C.
- All inductance values greater than 0.1 μH read at recommended Q meter frequency.
- All inductance values below 0.1 μH calculated from readings taken at 50 MHz.
- L min measured with core halfway out top of form.
- Core material: Carbonyl J; Core length: 1/4 INCH.
- Terminations: Tin-silver over nickel brass.
- Inductance and Q readings taken with 16 AWG tinned copper 1/2" long soldered along leads and bent at 90° 1/4" down from standoffs.
- MoxiE Inductor Corporation specifications are subject to change without notice
- MoxiE Inductor Corporation custom designed products are subject to United States copyright and or Patent protection(s).