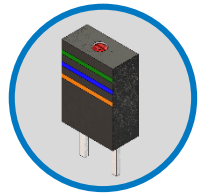




# ST Series Tunable Inductors



Piconics ST series is a rectangular top tunable inductor for dense packaging. It has an internal adjusting screw which functions within the dimensions of the package. The product features a high temperature epoxy case and a complete range of values from 20 nH to 1 mH.

## Applications:

- Military Radar
- Confined Spaces
- MW TXRX Modules
- Printed Circuit Boards
- Tuned Circuit Assemblies

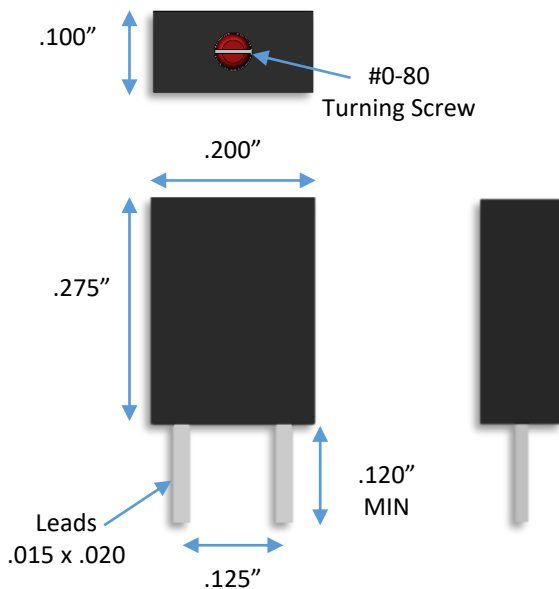


## Features:

- Top Tunable
- High Reliability
- Adjustment Screw
- PC Board Mountable
- High Packing Density
- Headless, Self-Locking
- Style, Military LT1 1
  - Grade 2
  - Class A
- QPL Listed 15305
  - MS 53229
  - MS 53230

## Mechanicals:

\*Not Drawn To Scale\*  
\*Dimensions in Inches\*



## Environmental:

Operating Temp.	-55°C to +125°C
Storage Temp.	-55°C to +125°C
Power Dissipation	200 mW max
Dielectric Withstanding Voltages:	Sea Level: 1,000 Vrms min 70,000 feet: 200 Vrms min

## Physical Characteristics:

Terminal Pull	2 lbs. min
Tuning Torque	0.005 - 0.15 in. oz.
Stop Torque	0.15 in. oz. max
Weight	200 gram max
Case	Black Epoxy

**Note:** To tune coil, we recommend a jeweler's screwdriver with a .040" blade.



[www.piconics.com](http://www.piconics.com)

ISO 9001:2015

Established 1963

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Rev A-2021

ST Series Inductor Specifications						
Part Number	L Range μH	Q Min @ Lmax	Test Freq. MHz	SRF Min MHz	DCR Max Ohms	Idc Max ma
ST250-8I	.020 – .025	50	200	1000	.04	250
ST510-8I	.036 – .051	40	100	700	.05	250
ST760-8I	.055 – .076	40	100	615	.15	250
ST101-8I	.075 – .10	30	25	500	.50	250
ST151-8I	.11 – .15	30	25	420	.50	200
ST221-8I	.16 – .22	30	25	400	.60	180
ST271-8I	.20 – .27	30	25	400	.80	180
ST331-8I	.24 – .33	30	25	320	.90	140
ST471-8I	.34 – .47	30	25	290	1.0	100
ST561-8I	.40 – .56	30	25	250	1.0	100
ST681-8I	.50 – .68	30	25	240	1.3	100
ST821-8I	.59 – .82	30	25	180	1.4	100
ST102-6I	.67 – 1.0	25	7.9	140	1.5	100
ST152-6I	1.0 – 1.5	25	7.9	135	1.6	100
ST222-6I	1.5 – 2.2	25	7.9	100	2.1	80
ST272-6I	2.0 – 2.7	25	7.9	60	2.4	75
ST332-6I	2.2 – 3.3	25	7.9	55	2.7	65
ST472-6I	3.2 – 4.7	25	7.9	50	3.3	60
ST582-6I	3.9 – 5.8	25	7.9	36	4.2	58
ST682-6I	4.6 – 6.8	25	7.9	34	4.5	55
ST822-6I	5.5 – 8.2	25	7.9	32	4.5	50
ST103-3F	6.0 – 10	22	2.5	30	4.5	50
ST133-3F	6.5 – 13	22	2.5	28	4.5	50
ST163-3F	8.0 – 16	22	2.5	26	5.1	50
ST203-3F	10 – 20	22	2.5	20	5.3	43
ST223-3F	11 – 22	22	2.5	14	6.0	43
ST303-3F	15 – 30	22	2.5	10	6.8	40
ST363-3F	18 – 36	22	2.5	9.0	7.5	40
ST473-3F	24 – 47	22	2.5	6.5	8.6	35
ST563-3F	28 – 56	22	2.5	6.3	10.6	35
ST683-3F	34 – 68	22	2.5	6.2	12.0	30
ST753-3F	38 – 75	22	2.5	5.9	13.5	30
ST863-3F	43 – 86	22	2.5	5.6	15.0	28
ST104-3F	50 – 100	20	.79	5.4	18.0	27

Contact Piconics



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