

THI SERIES: Thin Film Chip Inductor
JARO COMPONENTS, INC.

• **FEATURES**

JARO's THI series inductor is made by etching thin film coated on a ceramic chip with photo-lithography method. THI series inductors have high SRF, excellent Q, and good temperature stability.

• **Tight Tolerance**

2% or 0.2nH tolerance is the standard.

• **Strict SRF Controlled**

SRF is controlled within 10%.

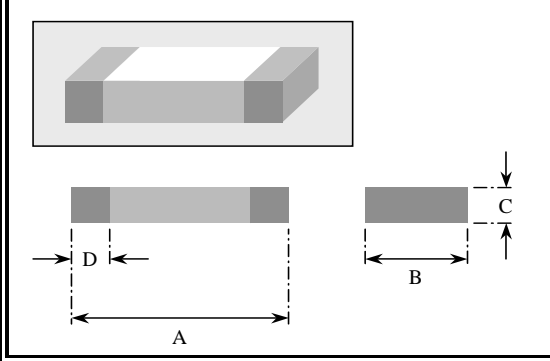
• **APPLICATIONS**

- Cellular Phones, pagers, and GPS products.
- Wireless LAN and other communication application
- VCO, TCXO circuit and RF transceiver module.

• **PRODUCT IDENTIFICATION**

①	②	③	④	⑤	① Product Code ② Dimensions (in mm) ③ Inductance Code ④ Tolerance Code ⑤ Code for Customer
THI	- 160805	- 1N2	S	H	
<i>Code</i>	<i>Tolerance</i>				
G	±2%				
F	±1%				
C	±0.2nH				
B	±0.1nH				

• **PRODUCT IDENTIFICATION**

	PRODUCT NO.	A	B	C	D
	THI-160805 (0603)	1.6±0.1 (0.063±0.004)	0.8±0.1 (0.031±0.004)	0.45±0.1 (0.018±0.004)	0.3±0.20 (0.012±0.008)
	THI-100504 (0402)	1.0±0.1 (0.039±0.004)	0.50±0.10 (0.020±0.004)	0.35±0.10 (0.020±0.004)	0.20±0.10 (0.010±0.004)
Notes: Dimensions in mm (inch)					

THI SERIES-160805

Thin Film Chip Inductors

◆ PRODUCT SPECIFICATIONS

PART NUMBER	INDUCTANCE (nH)	INDUCTANCE TOLERANCE (% or nH)	QUALITY FACTOR (Min)	RATED CURRENT (mA)	SRF (Min) (G Hz)
THI-160805-1N0	1.0	0.1 / 0.2 nH	17 / 300 MHZ	300	6
THI-160805-1N2	1.2	0.1 / 0.2 nH	17 / 300 MHZ	300	6
THI-160805-1N5	1.5	0.1 / 0.2 nH	17 / 300 MHZ	300	6
THI-160805-1N8	1.8	0.1 / 0.2 nH	17 / 300 MHZ	300	6
THI-160805-2N2	2.2	0.1 / 0.2 nH	17 / 300 MHZ	300	6
THI-160805-2N7	2.7	0.1 / 0.2 nH	17 / 300 MHZ	300	6
THI-160805-3N3	3.3	0.1 / 0.2 nH	17 / 300 MHZ	300	6
THI-160805-3N9	3.9	0.1 / 0.2 nH	17 / 300 MHZ	300	6
THI-160805-4N7	4.7	0.1 / 0.2 nH	17 / 300 MHZ	300	5
THI-160805-5N6	5.6	0.1 / 0.2 nH	17 / 300 MHZ	300	5
THI-160805-6N8	6.8	0.1 / 0.2 nH	17 / 300 MHZ	300	5
THI-160805-8N2	8.2	0.1 / 0.2 nH	17 / 300 MHZ	300	4
THI-160805-10N	10.0	2%	15 / 300 MHZ	300	4
THI-160805-12N	12.0	2%	15 / 300 MHZ	300	3
THI-160805-15N	15.0	2%	15 / 300 MHZ	300	3
THI-160805-18N	18.0	2%	15 / 300 MHZ	300	2
THI-160805-22N	22.0	2%	15 / 300 MHZ	250	2
THI-160805-27N	27.0	2%	15 / 300 MHZ	250	2
THI-160805-33N	33.0	2%	15 / 300 MHZ	250	1.5
THI-160805-39N	39.0	2%	15 / 300 MHZ	200	1.5
THI-160805-47N	47.0	2%	15 / 300 MHZ	200	1.5
THI-160805-56N	56.0	2%	15 / 300 MHZ	150	1
THI-160805-68N	68.0	2%	15 / 300 MHZ	150	1

THI SERIES-100504

Thin Film Chip Inductors

◆ PRODUCT SPECIFICATIONS

PART NUMBER	INDUCTANCE (nH)	INDUCTANCE TOLERANCE (% or nH)	QUALITY FACTOR (Min)	RATED CURRENT (mA)	SRF (Min) (G Hz)
THI-100504-1N0	1.0	0.1 / 0.2 nH	13 / 500 MHZ	350	6
THI-100504-1N2	1.2	0.1 / 0.2 nH	13 / 500 MHZ	350	6
THI-100504-1N5	1.5	0.1 / 0.2 nH	13 / 500 MHZ	250	6
THI-100504-1N8	1.8	0.1 / 0.2 nH	13 / 500 MHZ	250	6
THI-100504-2N2	2.2	0.1 / 0.2 nH	13 / 500 MHZ	220	6
THI-100504-2N7	2.7	0.1 / 0.2 nH	13 / 500 MHZ	220	6
THI-100504-3N3	3.3	0.1 / 0.2 nH	13 / 500 MHZ	180	6
THI-100504-3N9	3.9	0.1 / 0.2 nH	13 / 500 MHZ	150	6
THI-100504-4N7	4.7	0.1 / 0.2 nH	13 / 500 MHZ	150	5
THI-100504-5N6	5.6	0.1 / 0.2 nH	13 / 500 MHZ	130	5
THI-100504-6N8	6.8	0.1 / 0.2 nH	13 / 500 MHZ	130	5
THI-100504-8N2	8.2	0.1 / 0.2 nH	13 / 500 MHZ	100	5
THI-100504-10N	10.0	2%	13 / 500 MHZ	100	4
THI-100504-12N	12.0	2%	13 / 500 MHZ	90	3
THI-100504-15N	15.0	2%	13 / 500 MHZ	90	3
THI-100504-18N	18.0	2%	13 / 500 MHZ	80	3
THI-100504-22N	22.0	2%	13 / 500 MHZ	70	2.5