

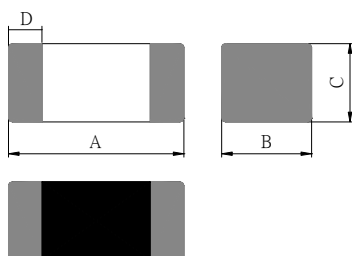
High Frequency Chip Inductor (Lead Free) THI18-Series

1. Features

1. Monolithic inorganic material construction.
2. Closed magnetic circuit avoids crosstalk.
3. S.M.T. type.
4. Suitable for reflow soldering.
5. Shapes and dimensions follow E.I.A. spec.
6. Available in various sizes.
7. Excellent solder ability and heat resistance.
8. High SRF up to 6GHz and above.
9. 100% Lead(Pb) & Halogen-Free and RoHS compliant.
10. Operating Temperature:-55~+105°C (Including self-temperature rise)



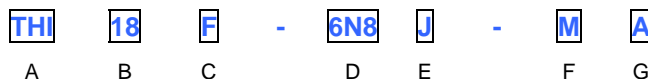
2. Dimensions



Chip Size	
A	1.60±0.15
B	0.80±0.15
C	0.80±0.15
D	0.30±0.20

Units: mm

3. Part Numbering



- A: Series
- B: Dimension
- C: Material [Lead Free Material](#)
- D: Inductance 6N8=6.8nH
- E: Inductance Tolerance S=±0.3nH , J=±5% , K=±10%
- F: MARKING
- G: Category Code

4. Specification

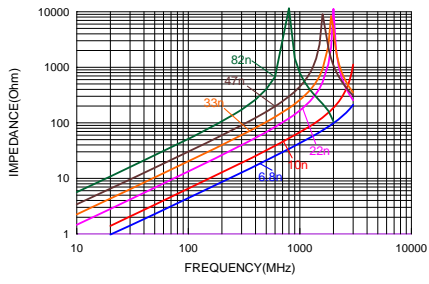
Tai-Tech Part Number	Inductance		Q		Rated Current (mA) max.	DCR (Ω) max.	SRF (MHz) min.
	(nH)	Test Frequency (MHz)	Normal Value	min.			
THI18F-1N0SMA	1.0	100	14	8	300	0.05	10000
THI18F-1N2SMA	1.2	100	14	8	300	0.05	10000
THI18F-1N5SMA	1.5	100	14	8	300	0.10	6000
THI18F-1N8SMA	1.8	100	10	8	300	0.10	6000
THI18F-2N2SMA	2.2	100	12	8	300	0.10	6000
THI18F-2N7SMA	2.7	100	13	10	300	0.10	6000
THI18F-3N3SMA	3.3	100	14	10	300	0.12	6000
THI18F-3N9SMA	3.9	100	13	10	300	0.14	6000
THI18F-4N7SMA	4.7	100	13	10	300	0.16	4000
THI18F-5N6SMA	5.6	100	14	10	300	0.18	4000
THI18F-6N8□MA	6.8	100	14	10	300	0.22	4000
THI18F-8N2□MA	8.2	100	14	10	300	0.24	3500
THI18F-10N□MA	10	100	14	12	300	0.26	3400
THI18F-12N□MA	12	100	14	12	300	0.28	2600
THI18F-15N□MA	15	100	15	12	300	0.32	2300
THI18F-18N□MA	18	100	15	12	300	0.35	2000
THI18F-22N□MA	22	100	16	12	300	0.40	1600
THI18F-27N□MA	27	100	16	12	300	0.45	1400
THI18F-33N□MA	33	100	17	12	300	0.55	1200
THI18F-39N□MA	39	100	18	12	300	0.60	1100
THI18F-47N□MA	47	100	17	12	300	0.70	900
THI18F-56N□MA	56	100	17	12	300	0.75	900
THI18F-68N□MA	68	100	18	12	300	0.85	700
THI18F-82N□MA	82	100	18	12	300	0.95	600
THI18F-R10□MA	100	100	18	12	300	1.00	600
THI18F-R12□MA	120	50	16	8	300	1.20	500
THI18F-R15□MA	150	50	13	8	300	1.20	500
THI18F-R18□MA	180	50	13	8	300	1.30	400
THI18F-R22□MA	220	50	12	8	300	1.50	400

NOTE: □:TOLERANCE J:±5% K :±10%

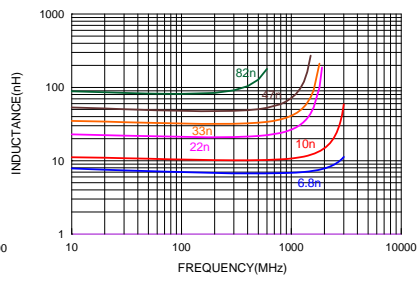
- Rated current: based on temperature rise test
- In compliance with EIA 595

■ Impedance, Inductance, Q v.s. Frequency Characteristics

Impedance v.s. Frequency Characteristics



Inductance v.s. Frequency Characteristics



Q v.s. Frequency Characteristics

