

### FEATURES

Mag.Layers' TFI series inductor is made by etching thin film coated on a ceramic chip with photolithography method. TFI 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.

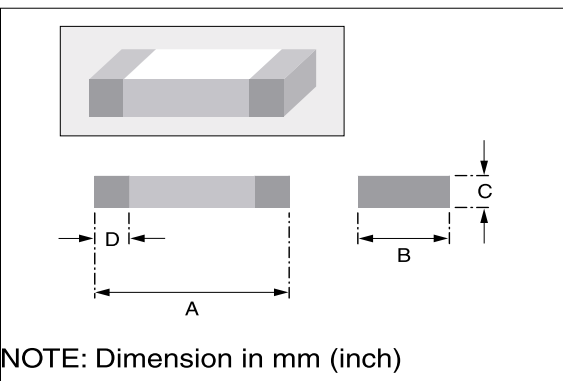
### PRODUCT IDENTIFICATION

①      ②      ③      ④      ⑤  
 TFI - 160805 - 1N2   S   □ □

- ① Product Code
- ② Dimensions (in mm)
- ③ Inductance Code
- ④ Tolerance Code
- ⑤ Pattern Code

Code	Tolerance
G	±2%
F	±1%
C	±0.2nH
B	±0.1nH

### PRODUCT DIMENSIONS



PRODUCT NO.	A	B	C	D
TFI-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)
TFI-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)

## ■ PRODUCT SPECIFICATIONS

PART NUMBER	INDUCTANCE (nH)	INDUCTANCE TOLERANCE (% or nH)	QUALITY FACTOR Min.	RATED CURRENT (mA)	SRF MIN. (G Hz)	R <sub>DC</sub> (Ω) Max.
TFI-160805-1N0	1.0	0.1 / 0.2 nH	15 / 300 MHZ	800	6	0.2
TFI-160805-1N2	1.2	0.1 / 0.2 nH	15 / 300 MHZ	800	6	0.2
TFI-160805-1N5	1.5	0.1 / 0.2 nH	15 / 300 MHZ	800	6	0.2
TFI-160805-1N8	1.8	0.1 / 0.2 nH	15 / 300 MHZ	300	6	0.2
TFI-160805-2N2	2.2	0.1 / 0.2 nH	15 / 300 MHZ	300	6	0.2
TFI-160805-2N7	2.7	0.1 / 0.2 nH	15 / 300 MHZ	300	6	0.2
TFI-160805-3N3	3.3	0.1 / 0.2 nH	15 / 300 MHZ	300	6	0.2
TFI-160805-3N9	3.9	0.1 / 0.2 nH	15 / 300 MHZ	300	6	0.2
TFI-160805-4N7	4.7	0.1 / 0.2 nH	15 / 300 MHZ	300	5	0.2
TFI-160805-5N6	5.6	0.1 / 0.2 nH	15 / 300 MHZ	300	5	0.5
TFI-160805-6N8	6.8	0.1 / 0.2 nH	15 / 300 MHZ	300	5	0.5
TFI-160805-8N2	8.2	0.1 / 0.2 nH	15 / 300 MHZ	300	4	0.5
TFI-160805-10N	10.0	2%	15 / 300 MHZ	300	4	1.0
TFI-160805-12N	12.0	2%	15 / 300 MHZ	300	3	1.0
TFI-160805-15N	15.0	2%	15 / 300 MHZ	300	3	1.0
TFI-160805-18N	18.0	2%	15 / 300 MHZ	300	2	2.0
TFI-160805-22N	22.0	2%	15 / 300 MHZ	250	2	2.0
TFI-160805-27N	27.0	2%	15 / 300 MHZ	250	2	2.0
TFI-160805-33N	33.0	2%	15 / 300 MHZ	250	1.5	2.0
TFI-160805-39N	39.0	2%	15 / 300 MHZ	200	1.5	3.0
TFI-160805-47N	47.0	2%	15 / 300 MHZ	200	1.5	3.0
TFI-160805-56N	56.0	2%	15 / 300 MHZ	150	1	5.0
TFI-160805-68N	68.0	2%	15 / 300 MHZ	150	1	5.0

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TFI-100504-1N0	1.0	0.1 / 0.2 nH	13 / 500 MHZ	700	6	0.1
TFI-100504-1N2	1.2	0.1 / 0.2 nH	13 / 500 MHZ	700	6	0.1
TFI-100504-1N5	1.5	0.1 / 0.2 nH	13 / 500 MHZ	700	6	0.2
TFI-100504-1N8	1.8	0.1 / 0.2 nH	13 / 500 MHZ	560	6	0.2
TFI-100504-2N2	2.2	0.1 / 0.2 nH	13 / 500 MHZ	440	6	0.3
TFI-100504-2N7	2.7	0.1 / 0.2 nH	13 / 500 MHZ	440	6	0.3
TFI-100504-3N3	3.3	0.1 / 0.2 nH	13 / 500 MHZ	380	6	0.4
TFI-100504-3N9	3.9	0.1 / 0.2 nH	13 / 500 MHZ	340	6	0.5
TFI-100504-4N7	4.7	0.1 / 0.2 nH	13 / 500 MHZ	320	6	0.6
TFI-100504-5N6	5.6	0.1 / 0.2 nH	13 / 500 MHZ	280	6	0.7
TFI-100504-6N8	6.8	0.1 / 0.2 nH	13 / 500 MHZ	260	6	0.9
TFI-100504-8N2	8.2	0.1 / 0.2 nH	13 / 500 MHZ	220	5.5	1.1
TFI-100504-10N	10.0	2%	13 / 500 MHZ	200	4.5	1.3
TFI-100504-12N	12.0	2%	13 / 500 MHZ	180	3.7	1.6
TFI-100504-15N	15.0	2%	13 / 500 MHZ	130	3.3	1.8
TFI-100504-18N	18.0	2%	13 / 500 MHZ	100	3.1	2.0
TFI-100504-22N	22.0	2%	13 / 500 MHZ	90	2.8	2.6