

Surface Mount Thin Film Inductors
TFL Series, Specifications, Pricing, & Kits



Part Number Determination

TFL08161N0		
TFL	0816	1N0
SERIES	CASE SIZE	INDUCTANCE
TFL	0510=0402 0816=0603	1N0=1.0nH

Electrical Characteristics

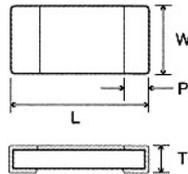
Inductance Range: 0402=1.0nH-39nH E24
0603=1.0nH-100nH E12
Tolerance Range: ±0.1nH to ±3%

Electrical Characteristics

	TFL0510 (0402)						TFL0816 (0603)				
	1.0-1.2	1.3-2.2	2.4-3.9	4.9-9.1	10-16	18-39	1.0-4.7	5.6-8.2	10-27	33-68	82-100
Inductance Range (nH)	1.0-1.2	1.3-2.2	2.4-3.9	4.9-9.1	10-16	18-39	1.0-4.7	5.6-8.2	10-27	33-68	82-100
Inductance Tolerance	+0.1nH		±0.2nH			±2%	±3%	±0.2nH		±2%	
Q min Meas. frequency 300mHz	10					*10	20	15		*15	*10
Typical Meas. frequency 800mHz	21						34-30		30-25	25	15
Typical Meas. frequency 1.5GHz	25		25-20	20	**20	38-35		35-30	**		
Self resistance frequency (GHz) min	7.0		5.5-4.0	4.0	2.0-1.5		6.0-5.0	5.0-4.0	4.0-2.0	1.5-1.0	1.0
DC resistance (ohm) max	0.1	0.15-0.20	0.20-0.40	0.60-1.50	1.50-2.55	2.55-4.00	0.10-0.25	0.050	1.0-2.0	2.0-4.5	6.0-8.5
Rated current (A)	1.2	0.93-0.60	0.58-0.42	0.34-0.21	0.21-0.16	0.16-0.12	1.0-0.6	0.40	0.3-0.2	0.2-0.14	0.12-0.1
*Measured at 200MHz in case of 33, 36, 39nH (TFL0510) and 33-100nH (TFL0816)											
** No measurement in case of 33, 36 and 39nH (TFL0510) and 33-100nH (TFL0816)											

Package Dimensions (mm)

	TFL0510 (0402)	TFL0816 (0603)
L	1.00±0.10	1.60±0.10
W	0.50±0.10	0.80±0.10
P	0.15±0.10	0.30±0.20
T	0.40±0.10	0.45±0.1



Schematic

