Thin Film Chip Inductors

TFL Series

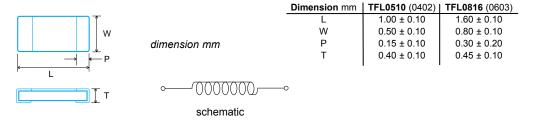


🚣 1.0 Description

These 0805 and 0402 size chip inductors are adjustment free due to their tight tolerance. Additionally, this part also offers a high self-resonance frequency of 1GHz and a very excellent rated current. The package size and dimensions make it very similar to the chip resistor products.



🎝 2.0 Mechanical





🍶 3.0 Electrical

Туре	TFL0510 (0402)						TFL0816 (0603)				
Inductance range	E-24						E-12				
Inductance range (nH)	1.0-1.2	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	±0.1 nH, ±0.2 nH ±0			0.2 nH	±2%	±3%	±0.2nH		±2%	±2%	
Q min.Meas.frequency 300mHz	10 *10						20	15	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	0.50	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
Packages	10,000 pcs./reel						5,000 pcs./reel				

^{*} 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)



4.0 Part Number







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