Wire-Wound Chip Inductors For Signal Lines

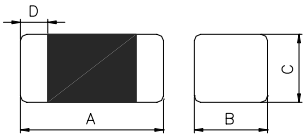
WPIS2016F-Series

1.Features

1. Closed magnetic circuit avoids crosstalk.
2. S.M.T type.
3. Suitable for reflow soldering.
4. Shapes and dimensions follow E.I.A spec.
5. Propose down sizing with High Q and narrow tolerance.
6. Excellent solderability and heat resistance.
7. 100% Lead(Pb) & Halogen-Free and RoHS compliant.

Halogen-free Pb-free Certificate Green Partner

2. Dimensions



Chip Size	
A	2.00±0.20
B	1.60±0.20
C	1.60±0.20
D	0.50±0.20

Units: mm

3. Part Numbering

WPIS	2016	F	-	1R0	J
A	B	C		D	E

A: Series
B: Dimension L x W
C: Material Lead Free Material
D: Inductance 1R0=1.0uH
E: Inductance Tolerance J=±5%

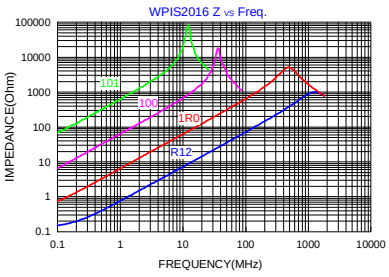
4.Specification

Tai-Tech Part Number	Inductance (uH)	Test Frequency (MHz)	Q (min.)	SRF(MHz) min.	DCR (Ω) ±30%	Rated Current (mA) max.
WPIS2016F-R12J	0.12	25.2	30	600	0.13	610
WPIS2016F-R15J	0.15	25.2	30	550	0.15	570
WPIS2016F-R18J	0.18	25.2	30	500	0.15	560
WPIS2016F-R22J	0.22	25.2	30	450	0.20	520
WPIS2016F-R27J	0.27	25.2	30	425	0.21	510
WPIS2016F-R33J	0.33	25.2	30	400	0.21	490
WPIS2016F-R39J	0.39	25.2	30	375	0.26	440
WPIS2016F-R47J	0.47	25.2	30	350	0.26	430
WPIS2016F-R56J	0.56	25.2	30	300	0.29	410
WPIS2016F-R68J	0.68	25.2	30	270	0.32	400
WPIS2016F-R82J	0.82	25.2	30	250	0.34	390
WPIS2016F-1R0J	1.0	7.96	30	220	0.38	385
WPIS2016F-1R2J	1.2	7.96	30	180	0.41	370
WPIS2016F-1R5J	1.5	7.96	30	135	0.47	350

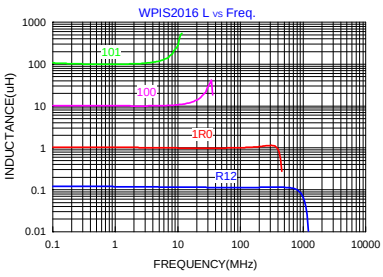
Tai-Tech Part Number	Inductance (uH)	Test Frequency (MHz)	Q (min.)	SRF(MHz) min.	DCR (Ω) ±30%	Rated Current (mA) max.
WPIS2016F-1R8J	1.8	7.96	30	100	0.48	345
WPIS2016F-2R2J	2.2	7.96	30	75	0.54	340
WPIS2016F-2R7J	2.7	7.96	30	55	0.59	310
WPIS2016F-3R3J	3.3	7.96	30	48	0.68	290
WPIS2016F-3R9J	3.9	7.96	30	43	0.74	275
WPIS2016F-4R7J	4.7	7.96	30	40	0.78	270
WPIS2016F-5R6J	5.6	7.96	25	36	0.88	255
WPIS2016F-6R8J	6.8	7.96	25	33	0.97	240
WPIS2016F-8R2J	8.2	7.96	25	30	1.10	225
WPIS2016F-100J	10	2.52	25	27	1.20	215
WPIS2016F-120J	12	2.52	25	23	1.40	200
WPIS2016F-150J	15	2.52	25	20	1.50	190
WPIS2016F-180J	18	2.52	25	18	2.50	150
WPIS2016F-220J	22	2.52	25	17	2.80	140
WPIS2016F-270J	27	2.52	25	16	3.20	130
WPIS2016F-330J	33	2.52	25	15	3.60	125
WPIS2016F-390J	39	2.52	20	14	3.90	120
WPIS2016F-470J	47	2.52	20	13	4.10	115
WPIS2016F-560J	56	2.52	20	12	5.90	95
WPIS2016F-680J	68	2.52	20	11	7.00	90
WPIS2016F-820J	82	2.52	20	10	7.70	85
WPIS2016F-101J	100	0.796	15	9	8.00	80

Impedance, Inductance,Q v.s. Frequency Characteristics

Impedance v.s. Frequency Characteristics



Inductance v.s. Frequency Characteristics



Q v.s. Frequency Characteristics