IWW Series

Wirewound Inductor ▼ Resin Molded Case ▼ Chip

Features:

- Virtually eliminates crosstalk
- Provides reliable EMI/RFI filtering in power lines
- High SRF and excellent Q values
- Good thermal stability and predictability
- Heat resistant resin molded construction provides superior mechanical strength and moisture resistance
- Designed for miniaturized communication and computer products
- Suitable for high density mounting when PCB real estate is at a premium
- Leaching resistant terminations due to metal tab electrodes
- IR reflow solderable

Summary of Specifications:

- Resin Molded Wirewound Chip Inductor
- Nominal inductance range: 0.1µH to 1,000µH
- Operating temperature range: -20°C to +100°C
- Standard capacitance tolerance: ±10%, ±20%
- EIA case sizes: 1210 and 1812

Part Numbering System

IWW	475	K	1210	P	7
Series Code	Inductance	Tolerance	Case Size	Package	Reel Size
	0.1µH to 1,000µH (Expressed in µH where the first two digits identify the first and second significant figures of inductance and the third digit identifies the multiplier)	K = ±10% M = ±20%	1210 1812	B = Bulk P = Plastic Tape/Reel	7 = 7" Reel 10 = 10" Reel 13 = 13" Reel

IWW Series

Electrical Characteristics

Part Number	Inductance (µH)	Inductance Tolerance	Q min	Test Frequency (MHz)	Self Resonant Frequency (MHz) min	DC Resistance (Ω) max	DC Rated Current (mA) max
IWW104M1210	0.10	±20%	28	25.20	450	0.25	450
IWW224M1210	0.22	±20%	30	25.20	350	0.32	450
IWW334M1210	0.33	±20%	30	25.20	300	0.40	450
IWW394M1210	0.39	±20%	30	25.20	250	0.45	450
IWW684M1210	0.68	±20%	30	25.20	160	0.60	450
IWW105M1210	1.0	±10%	30	7.960	120	0.70	400
IWW125K1210	1.2	±10%	30	7.960	100	0.75	390
IWW155K1210	1.5	±10%	30	7.960	85	0.85	370
IWW185K1210	1.8	±10%	30	7.960	80	0.90	350
IWW225K1210	2.2	±10%	30	7.960	75	1.00	320
IWW275K1210	2.7	±10%	30	7.960	70	1.10	290
IWW335K1210	3.3	±10%	30	7.960	60	1.20	260
IWW395K1210	3.9	±10%	30	7.960	55	1.30	250
IWW475K1210	4.7	±10%	30	7.960	50	1.50	220
IWW565K1210	5.6	±10%	30	7.960	47	1.60	200
IWW685K1210	6.8	±10%	30	7.960	43	1.80	180
IWW825K1210	8.2	±10%	30	7.960	40	2.00	170
IWW106K1210	10.0	±10%	30	2.520	36	2.10	150
IWW126K1210	12.0	±10%	30	2.520	33	2.50	140
IWW156K1210	15.0	±10%	30	2.520	30	2.80	130
IWW186K1210	18.0	±10%	30	2.520	27	3.30	120
IWW226K1210	22.0	±10%	30	2.520	25	3.70	110
IWW276K1210	27.0	±10%	30	2.520	20	5.00	80
IWW336K1210	33.0	±10%	30	2.520	17	5.60	70
IWW396K1210	39.0	±10%	30	2.520	16	6.40	65
IWW476K1210	47.6	±10%	30	2.520	15	7.00	60
IWW566K1210	56.0	±10%	30	2.520	13	8.00	55
IWW686K1210	68.0	±10%	30	2.520	12	9.00	50
IWW826K1210	82.0	±10%	30	2.520	11	10.0	45
IWW107K1210	100.0	±10%	20	0.796	10	10.0	40
IWW127K1210	120.0	±10%	20	0.796	10	11.0	70
IWW157K1210	150.0	±10%	20	0.796	8	15.0	65
IWW187K1210	180.0	±10%	20	0.796	7	17.0	60
IWW227K1210	220.0	±10%	20	0.796	7	21.0	50

IWW Series

Electrical Characteristics

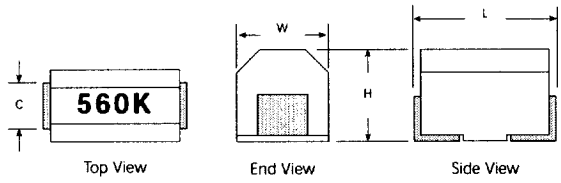
Part Number	Inductance (µH)	Inductance Tolerance	Q min	Test Frequency (MHz)	Self Resonant Frequency (MHz) min	DC Resistance (Ω) max	DC Rated Current (mA) max
IWW104M1812	0.10	±20%	28	25.20	700	0.14	450
IWW124M1812	0.12	±20%	30	25.20	500	0.22	450
IWW154M1812	0.15	±20%	30	25.20	450	0.25	450
IWW184M1812	0.18	±20%	30	25.20	400	0.28	450
IWW224M1812	0.22	±20%	30	25.20	350	0.32	450
IWW274M1812	0.27	±20%	30	25.20	320	0.36	450
IWW334M1812	0.33	±20%	30	25.20	300	0.40	450
IWW394M1812	0.39	±20%	30	25.20	250	0.45	450
IWW474M1812	0.47	±20%	30	25.20	220	0.50	450
IWW564M1812	0.56	±20%	30	25.20	180	0.55	450
IWW684M1812	0.68	±20%	30	25.20	160	0.60	450
IWW824M1812	0.82	±20%	30	25.20	140	0.67	450
IWW105K1812	1.00	±10%	50	7.96	100	0.50	450
IWW125K1812	1.20	±10%	50	7.96	80	0.55	430
IWW155K1812	1.50	±10%	50	7.96	70	0.60	410
IWW185K1812	1.80	±10%	50	7.96	60	0.65	390
IWW225K1812	2.20	±10%	50	7.96	55	0.70	380
IWW275K1812	2.70	±10%	50	7.96	50	0.75	370
IWW335K1812	3.30	±10%	50	7.96	45	0.80	355
IWW395K1812	3.90	±10%	50	7.96	40	0.90	330
IWW475K1812	4.70	±10%	50	7.96	35	1.00	315
IWW565K1812	5.60	±10%	50	7.96	33	1.10	300
IWW685K1812	6.80	±10%	50	7.96	27	1.20	285
IWW825K1812	8.2	±10%	50	7.96	25	1.40	270
IWW106K1812	10.0	±10%	50	2.52	20	1.60	250
IWW126K1812	12.0	±10%	50	2.52	18	2.00	225
IWW156K1812	15.0	±10%	50	2.52	17	2.50	200
IWW186K1812	18.0	±10%	50	2.52	15	2.80	190
IWW226K1812	22.0	±10%	50	2.52	13	3.20	180
IWW276K1812	27.0	±10%	50	2.52	12	3.60	170
IWW336K1812	33.0	±10%	50	2.52	11	4.00	160
IWW396K1812	39.0	±10%	50	2.52	10	4.50	150
IWW476K1812	47.0	±10%	50	2.52	10	5.00	140
IWW566K1812	56.0	±10%	50	2.52	9	5.50	135

IWW Series

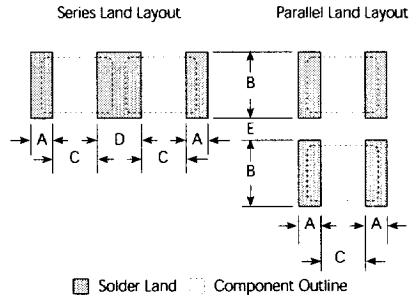
Electrical Characteristics

Part Number	Inductance (μH)	Inductance Tolerance	Q min	Test Frequency (MHz)	Self Resonant Frequency (MHz) min	DC Resistance (Ω) max	DC Rated Current (mA) max
IWW686K1812	68.0	±10%	50	2.52	9	6.00	130
IWW826K1812	82.0	±10%	50	2.52	8	7.00	120
IWW107K1812	100.0	±10%	40	0.796	7	8.00	110
IWW127K1812	120.0	±10%	40	0.796	6	8.00	110
IWW157K1812	150.0	±10%	40	0.796	5	9.00	105
IWW187K1812	180.0	±10%	40	0.796	5	9.50	102
IWW227K1812	220.0	±10%	40	0.796	4	12.0	100
IWW277K1812	270.0	±10%	30	0.796	3	18.0	92
IWW337K1812	330.0	±10%	30	0.796	3	20.0	85
IWW397K1812	390.0	±10%	30	0.796	3	23.0	80
IWW477K1812	470.0	±10%	30	0.796	3	26.0	62
IWW567K1812	560.0	±10%	30	0.796	2	30.0	50
IWW687K1812	680.0	±10%	30	0.796	2	40.0	50
IWW827K1812	820.0	±10%	30	0.796	2	45.0	30
IWW108K1812	1,000.0	±10%	30	0.796	2	50.0	30

IWW Dimensions



Recommended Solder Land Pattern



Mechanical Specifications

dimensions in mm

Inductor Dimensions					Solder Land Dimensions				
Type	Length (L)	Width (W)	Height (H)	Termination (C)	Land Spacing (A)	Land Length (B)	Land Width (C)	Series Land Width (D)	Parallel Land Spacing (E)
IWW1210	3.2±0.2	2.5±0.2	2.2±0.2	1.4±0.1	1.0	3.0	2.0	3.0	0.5
IWW1812	4.5±0.3	2.5±0.2	3.2±0.2	1.75±0.1	1.5	4.0	3.0	3.0	0.6