

## SMWIH Series



### Features

RoHS compliant  
Lead-free materials is used for the plating on the terminals  
The product uses metal terminals, which realize excellent connection reliability  
High resistance to heat, humidity, mechanical shocks and pressure. Accurate dimensions for automatically surface mounted  
The product has good heat durability that withstands lead-free compatible reflow soldering conditions

### General Specifications

Test Frequency.....0.796~ 7.96MHz  
Test Voltage.....50mV  
Parameters Test Temp..... 25℃  
Operation Temp.....-40℃ to +125℃  
(Including temperature Rise)  
Storage Temp.....0~40℃  
Storage Humidity.....<70% RH  
Resistance to Soldering Heat.....245℃ for 10 sec  
Rated Current.....40℃ typ. at Irms

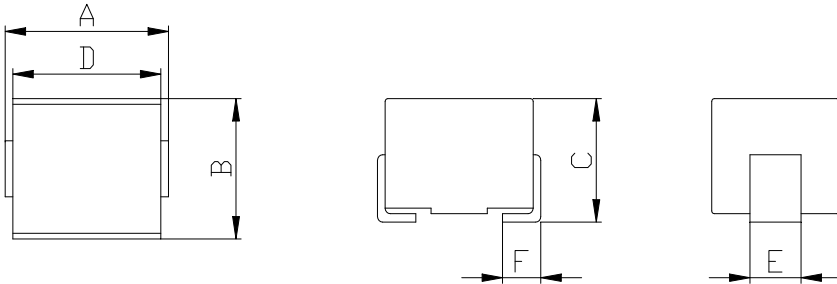
### Applications

SMWIH series high reliable wire wound chip inductors for communication, equipment, instrument, video & audio have been developed in response to the trend toward higher density mounting of parts in electric circuits.

### Product Identification

SMWIHXXXXXTL - XXXX  
For example: SMWIH322522TL-4R7M

## Shape And Dimensions



## Electrical Schematic & PAD Layout



## Dimensions In mm

TYPE	A	B	C	D	E	F	H	I	J
	±0.4	±0.2	±0.2	±0.3	Ref	Ref	Ref	Ref	Ref
322522	3.20	2.50	2.20	2.90	1.00	0.60	1.20	1.00	1.80
453232	4.50	3.20	3.20	4.20	1.10	1.00	1.30	1.40	2.20

## Standard Specifications

Stamp	Inductance (uH)	Tolerance	Q (Min)	DCR (Ω) Max	Test frequency L,Q(MHz)	SRF (MHz) Min	Rated current (mA) Max
SMWIH322522TL-1R0	1.00	±20%	10	0.156	7.96	100	770
SMWIH322522TL-1R5	1.50	±20%	10	0.195	7.96	80	580
SMWIH322522TL-2R2	2.20	±20%	10	0.260	7.96	65	480
SMWIH322522TL-3R3	3.30	±20%	10	0.325	7.96	55	400
SMWIH322522TL-4R7	4.70	±20%	10	0.520	7.96	45	320
SMWIH322522TL-6R8	6.80	±20%	10	0.650	7.96	35	280
SMWIH322522TL-100	10.0	±10%	15	1.105	2.52	28	220
SMWIH322522TL-150	15.0	±10%	15	1.69	2.52	25	180
SMWIH322522TL-220	22.0	±10%	15	2.60	2.52	20	145
SMWIH322522TL-330	33.0	±10%	15	3.64	2.52	15	115
SMWIH322522TL-390	39.0	±10%	15	4.50	2.52	14	110
SMWIH322522TL-470	47.0	±10%	15	5.46	2.52	13	105
SMWIH322522TL-680	68.0	±10%	15	8.45	2.52	10	85
SMWIH322522TL-820	82.0	±10%	15	8.71	2.52	9	80
SMWIH322522TL-101	100	±10%	15	9.14	0.796	8	75

Note: When ordering, please specify tolerance code. Tolerance: K=±10%, M=±20%

## Standard Specifications

Stamp	Inductance (uH)	Tolerance	Q (Min)	DCR (Ω) Max	Test frequency L,Q(MHz)	SRF (MHz) Min	Rated current (mA) Max
SMWIH453232TL-1R0	1.00	±10%	10	0.11	7.96	180	1050
SMWIH453232TL-1R2	1.20	±10%	10	0.12	7.96	160	1000
SMWIH453232TL-1R5	1.50	±10%	10	0.15	7.96	130	950
SMWIH453232TL-1R8	1.80	±10%	10	0.16	7.96	100	900
SMWIH453232TL-2R2	2.20	±10%	10	0.18	7.96	80.0	850
SMWIH453232TL-2R7	2.70	±10%	10	0.20	7.96	60.0	800
SMWIH453232TL-3R3	3.30	±10%	10	0.22	7.96	45.0	750
SMWIH453232TL-3R9	3.90	±10%	10	0.24	7.96	40.0	700
SMWIH453232TL-4R7	4.70	±10%	10	0.27	7.96	35.0	650
SMWIH453232TL-5R6	5.60	±10%	10	0.30	7.96	30.0	650
SMWIH453232TL-6R8	6.80	±10%	10	0.35	7.96	28.0	600
SMWIH453232TL-8R2	8.20	±10%	10	0.40	7.96	25.0	600
SMWIH453232TL-100	10.0	±10%	10	0.50	2.52	22.0	550
SMWIH453232TL-120	12.0	±10%	10	0.60	2.52	21.0	500
SMWIH453232TL-150	15.0	±10%	10	0.70	2.52	20.0	450
SMWIH453232TL-180	18.0	±10%	10	0.80	2.52	19.0	400
SMWIH453232TL-220	22.0	±10%	10	0.90	2.52	18.0	370
SMWIH453232TL-270	27.0	±10%	10	1.20	2.52	16.0	330
SMWIH453232TL-330	33.0	±10%	10	1.40	2.52	14.0	300
SMWIH453232TL-390	39.0	±10%	10	1.60	2.52	12.0	280
SMWIH453232TL-470	47.0	±10%	10	1.90	2.52	11.5	260
SMWIH453232TL-560	56.0	±10%	10	2.20	2.52	11.0	240
SMWIH453232TL-680	68.0	±10%	10	2.60	2.52	10.0	220
SMWIH453232TL-820	82.0	±10%	10	3.50	2.52	9.00	200
SMWIH453232TL-101	100	±10%	20	4.00	0.796	8.00	180
SMWIH453232TL-121	120	±10%	20	4.50	0.796	7.50	160
SMWIH453232TL-151	150	±10%	20	6.50	0.796	7.00	140
SMWIH453232TL-181	180	±10%	20	7.50	0.796	6.50	120
SMWIH453232TL-221	220	±10%	20	9.00	0.796	5.50	120
SMWIH453232TL-271	270	±10%	20	11.0	0.796	5.00	100
SMWIH453232TL-331	330	±10%	20	13.0	0.796	4.00	90

Note: When ordering, please specify tolerance code. Tolerance: K=±10%, M=±20%