

## SMWI 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.....0.252~ 100MHz  
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

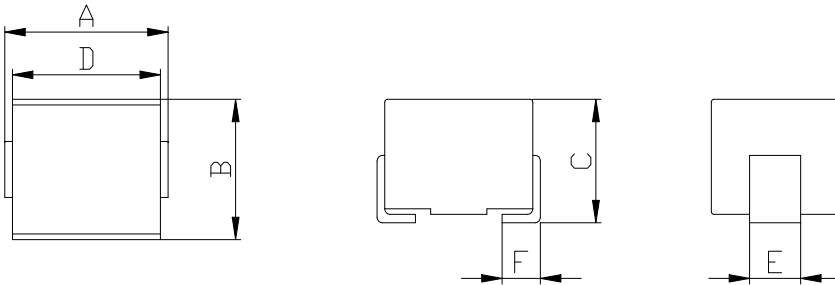
### Applications

SMWI 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.

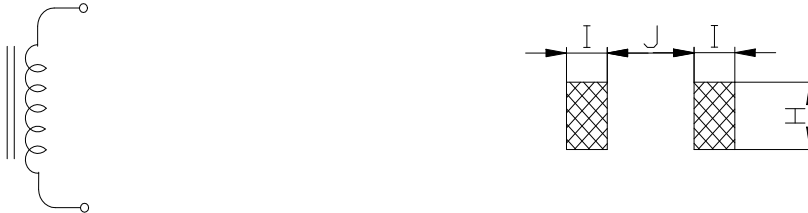
### Product Identification

SMWXXXXXXTL - XXXX  
For example: SMWI322522TL-4R7K

## 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
SMWI322522TL-R10	0.10	±20%, ±10%	28	0.44	100	700	450
SMWI322522TL-R12	0.12	±20%, ±10%	30	0.22	25.2	500	450
SMWI322522TL-R15	0.15	±20%, ±10%	30	0.25	25.2	450	450
SMWI322522TL-R18	0.18	±20%, ±10%	30	0.28	25.2	400	450
SMWI322522TL-R22	0.22	±20%, ±10%	30	0.32	25.2	350	450
SMWI322522TL-R27	0.27	±20%, ±10%	30	0.36	25.2	320	450
SMWI322522TL-R33	0.33	±20%, ±10%	30	0.40	25.2	300	450
SMWI322522TL-R39	0.39	±20%, ±10%	30	0.45	25.2	250	450
SMWI322522TL-R47	0.47	±20%, ±10%	30	0.50	25.2	220	450
SMWI322522TL-R56	0.56	±20%, ±10%	30	0.55	25.2	180	450
SMWI322522TL-R68	0.68	±20%, ±10%	30	0.60	25.2	160	450
SMWI322522TL-R82	0.82	±20%, ±10%	30	0.65	25.2	140	450
SMWI322522TL-1R0	1.00	±10%, ±5%	30	0.70	7.96	120	400
SMWI322522TL-1R2	1.20	±10%, ±5%	30	0.75	7.96	100	390
SMWI322522TL-1R5	1.50	±10%, ±5%	30	0.85	7.96	85	370
SMWI322522TL-1R8	1.80	±10%, ±5%	30	0.90	7.96	80	350
SMWI322522TL-2R2	2.20	±10%, ±5%	30	1.00	7.96	75	320
SMWI322522TL-2R7	2.70	±10%, ±5%	30	1.10	7.96	70	290
SMWI322522TL-3R3	3.30	±10%, ±5%	30	1.20	7.96	60	260
SMWI322522TL-3R9	3.90	±10%, ±5%	30	1.30	7.96	55	250
SMWI322522TL-4R7	4.70	±10%, ±5%	30	1.50	7.96	50	220
SMWI322522TL-5R6	5.60	±10%, ±5%	30	1.60	7.96	45	200
SMWI322522TL-6R8	6.80	±10%, ±5%	30	1.80	7.96	40	180
SMWI322522TL-8R2	8.20	±10%, ±5%	30	2.00	7.96	35	170
SMWI322522TL-100	10.0	±10%, ±5%	30	2.10	2.52	30	150
SMWI322522TL-120	12.0	±10%, ±5%	30	2.50	2.52	20	140
SMWI322522TL-150	15.0	±10%, ±5%	30	2.80	2.52	20	130
SMWI322522TL-180	18.0	±10%, ±5%	30	3.30	2.52	20	120
SMWI322522TL-220	22.0	±10%, ±5%	30	3.70	2.52	20	110
SMWI322522TL-270	27.0	±10%, ±5%	30	5.00	2.52	20	80
SMWI322522TL-330	33.0	±10%, ±5%	30	5.60	2.52	17	70
SMWI322522TL-390	39.0	±10%, ±5%	30	6.40	2.52	16	65
SMWI322522TL-470	47.0	±10%, ±5%	30	7.00	2.52	15	60
SMWI322522TL-560	56.0	±10%, ±5%	30	8.00	2.52	13	55
SMWI322522TL-680	68.0	±10%, ±5%	30	9.00	2.52	12	50
SMWI322522TL-820	82.0	±10%, ±5%	30	10.0	2.52	11	45
SMWI322522TL-101	100	±10%, ±5%	20	10.0	0.796	10	40
SMWI322522TL-121	120	±10%, ±5%	20	11.0	0.796	10	70
SMWI322522TL-151	150	±10%, ±5%	20	15.0	0.796	8	65
SMWI322522TL-181	180	±10%, ±5%	20	17.0	0.796	7	60
SMWI322522TL-221	220	±10%, ±5%	20	21.0	0.796	7	50

Note: When ordering, please specify tolerance code. Tolerance: J=±5%, K=±10%, M=±20%

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## Standard Specifications

Stamp	Inductance (uH)	Tolerance	Q (Min)	DCR (Ω) Max	Test frequency L,Q(MHz)	SRF (MHz) Min	Rated current (mA) Max
SMWI453232TL-R10	0.10	±20%, ±10%	35	0.18	25.2	300	800
SMWI453232TL-R12	0.12	±20%, ±10%	35	0.20	25.2	280	770
SMWI453232TL-R15	0.15	±20%, ±10%	35	0.22	25.2	250	730
SMWI453232TL-R18	0.18	±20%, ±10%	35	0.24	25.2	220	700
SMWI453232TL-R22	0.22	±20%, ±10%	40	0.25	25.2	200	665
SMWI453232TL-R27	0.27	±20%, ±10%	40	0.26	25.2	180	635
SMWI453232TL-R33	0.33	±20%, ±10%	40	0.28	25.2	165	605
SMWI453232TL-R39	0.39	±20%, ±10%	40	0.30	25.2	150	575
SMWI453232TL-R47	0.47	±20%, ±10%	40	0.32	25.2	145	545
SMWI453232TL-R56	0.56	±20%, ±10%	40	0.36	25.2	140	520
SMWI453232TL-R68	0.68	±20%, ±10%	40	0.40	25.2	135	500
SMWI453232TL-R82	0.82	±20%, ±10%	40	0.45	25.2	130	475
SMWI453232TL-1R0	1.00	±20%, ±10%	50	0.50	7.96	100	450
SMWI453232TL-1R2	1.20	±20%, ±10%	50	0.55	7.96	80	430
SMWI453232TL-1R5	1.50	±20%, ±10%	50	0.60	7.96	70	410
SMWI453232TL-1R8	1.80	±20%, ±10%	50	0.65	7.96	60	390
SMWI453232TL-2R2	2.20	±20%, ±10%	50	0.70	7.96	55	380
SMWI453232TL-2R7	2.70	±20%, ±10%	50	0.75	7.96	50	370
SMWI453232TL-3R3	3.30	±20%, ±10%	50	0.80	7.96	45	355
SMWI453232TL-3R9	3.90	±20%, ±10%	50	0.90	7.96	40	330
SMWI453232TL-4R7	4.70	±20%, ±10%	50	1.00	7.96	35	315
SMWI453232TL-5R6	5.60	±20%, ±10%	50	1.10	7.96	33	300
SMWI453232TL-6R8	6.80	±20%, ±10%	50	1.20	7.96	27	285
SMWI453232TL-8R2	8.20	±10%, ±5%	50	1.40	7.96	25	270
SMWI453232TL-100	10.0	±10%, ±5%	50	1.60	2.52	20	250
SMWI453232TL-120	12.0	±10%, ±5%	50	2.00	2.52	18	225
SMWI453232TL-150	15.0	±10%, ±5%	50	2.50	2.52	17	200
SMWI453232TL-180	18.0	±10%, ±5%	50	2.80	2.52	15	190
SMWI453232TL-220	22.0	±10%, ±5%	50	3.20	2.52	13	180
SMWI453232TL-270	27.0	±10%, ±5%	50	3.60	2.52	12	170
SMWI453232TL-330	33.0	±10%, ±5%	50	4.00	2.52	11	160
SMWI453232TL-390	39.0	±10%, ±5%	50	4.50	2.52	10	150
SMWI453232TL-470	47.0	±10%, ±5%	50	5.00	2.52	10	140
SMWI453232TL-560	56.0	±10%, ±5%	50	5.50	2.52	9.0	135
SMWI453232TL-680	68.0	±10%, ±5%	50	6.00	2.52	9.0	130
SMWI453232TL-820	82.0	±10%, ±5%	50	7.00	2.52	8.0	120
SMWI453232TL-101	100	±10%, ±5%	40	8.00	0.796	8.0	110
SMWI453232TL-121	120	±10%, ±5%	40	8.00	0.796	6.0	110
SMWI453232TL-151	150	±10%, ±5%	40	9.00	0.796	5.0	105
SMWI453232TL-181	180	±10%, ±5%	40	9.50	0.796	5.0	102
SMWI453232TL-221	220	±10%, ±5%	40	10.0	0.796	4.0	100
SMWI453232TL-271	270	±10%, ±5%	40	12.0	0.796	4.0	92
SMWI453232TL-331	330	±10%, ±5%	40	14.0	0.796	3.5	85
SMWI453232TL-391	390	±10%, ±5%	40	18.0	0.796	3.0	80
SMWI453232TL-471	470	±10%, ±5%	40	26.0	0.796	3.0	62
SMWI453232TL-561	560	±10%, ±5%	30	30.0	0.796	3.0	50
SMWI453232TL-681	680	±10%, ±5%	30	30.0	0.796	3.0	50
SMWI453232TL-821	820	±10%, ±5%	30	35.0	0.796	2.5	30
SMWI453232TL-102	1000	±10%, ±5%	20	40.0	0.252	2.5	30

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