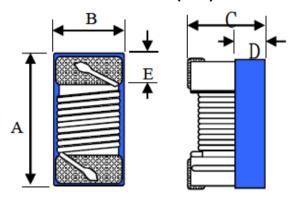
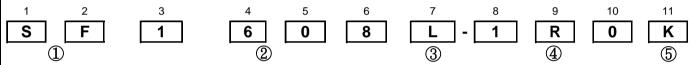
Version: 1.0 COIL SPECIFICATION ROHS COMPLIANT ITEM P/N SF1608L-SERIES TEST INSTRUMENT Agilent4291B / Agilent4338B PRODUCT SMD Inductor For Power Line TEST FREQUENCY 2.5 ~ 7.9 MHz / 0.5V

PACKING DIMENSIONS (mm)



SF1608L	Dimensions
Α	1.80 MAX
В	1.20 MAX
С	1.00 MAX
D	0.45 REF
Е	0.33 ± 0.1

EXPLANATION OF PART NUMBERS



- 1. Product Name
- 2. Dimensions
- 3. Material
- 4. Inductance Code
- 5. Inductance Tolerance $(J = \pm 5\%, K = \pm 10\%, M = \pm 20\%)$

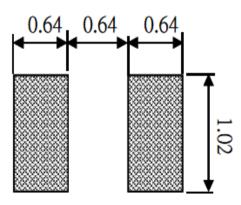
Operating temperature: -25 to +85°C

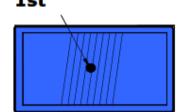
Idc for Inductance drop 10% from its value without current.

Irms for a 15°C rise above 25°C ambient.

If Use Wave soldering is there will be some risk. Re-flow soldering temperatures below 240 degrees, there will be unwitting risk

RECOMMENDED FOOTPRINT(Unit:mm)





COLOR CODING

Page: 1



HUNGTRON TECHNOLOGY Co.,Ltd.

Version: 1.0	CHARACTE	CHARACTERISTICS				
ITEM P/N	SF1608L-SERIES	TEST INSTRUMENT	Agilent4291B / Agilent4338B			
PRODUCT	SMD Inductor For Power Line	TEST FREQUENCY	2.5 ~ 7.9 MHz / 0.5V			

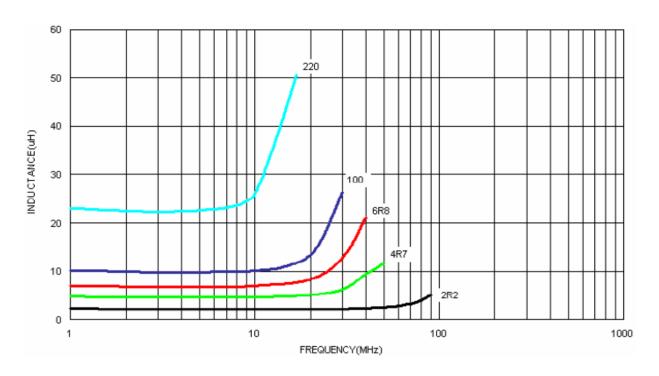
ELECTRICAL CHARACTERISTICS

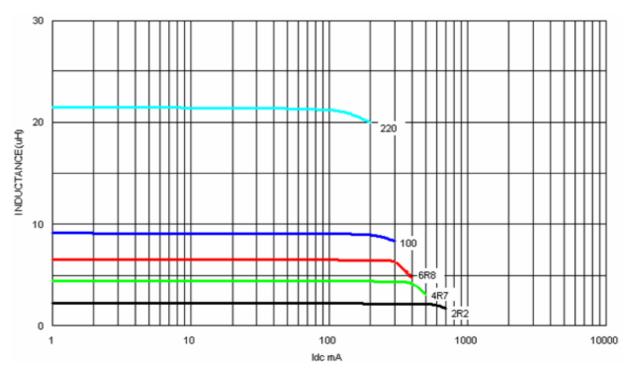
HUNGTRON	Inductance	Inductance	Q/MHz	SRF	DCR	l dc	I rms	Color
Part Number	(uH)/MHz	Tolerance	Тур.	(MHz) typ.	$(\Omega) \pm 30\%$	(mA) typ	(mA) Typ.	Coding
SF1608L-1R0□	1.0/7.9	K,M	16/7.9	390	0.32	860	700	Black
SF1608L-1R5□	1.5/7.9	K,M	16/7.9	160	0.40	720	600	Brown
SF1608L-1R8	1.8/7.9	K,M	16/7.9	121	0.43	640	580	Red
SF1608L-2R2□	2.2/7.9	K,M	16/7.9	103	0.56	600	580	Orange
SF1608L-2R7□	2.7/7.9	K,M	16/7.9	72	0.62	540	500	Yellow
SF1608L-3R3□	3.3/7.9	K,M	16/7.9	66	0.70	500	500	Green
SF1608L-3R9□	3.9/7.9	K,M	16/7.9	61	0.83	460	460	Blue
SF1608L-4R7□	4.7/7.9	K,M	16/7.9	51	0.97	400	420	Violet
SF1608L-5R6□	5.6/7.9	K,M	16/7.9	47	1.10	380	380	Gray
SF1608L-6R8□	6.8/7.9	K,M	16/7.9	43	1.50	340	340	White
SF1608L-8R2	8.2/7.9	K,M	16/7.9	40	1.68	300	300	Black
SF1608L-100□	10/2.5	K,M	14/2.5	36	1.85	280	280	Brown
SF1608L-120	12/2.5	K,M	14/2.5	32	2.28	260	260	Red
SF1608L-150□	15/2.5	K,M	14/2.5	29	2.60	240	240	Orange
SF1608L-180□	18/2.5	K,M	14/2.5	28	2.90	220	220	Yellow
SF1608L-220□	22/2.5	K,M	14/2.5	24	3.61	200	200	Green
SF1608L-270□	27/2.5	K,M	14/2.5	20	5.20	140	140	Blue
SF1608L-330□	33/2.5	K,M	14/2.5	15	6.60	120	120	Violet



Version: 1.0	CHARACTER	RoHS COMPLIANT	
ITEM P/N	SF1608L-SERIES	TEST INSTRUMENT	Agilent4291B / Agilent4338B
PRODUCT	SMD Inductor For Power Line	TEST FREQUENCY	2.5 ~ 7.9 MHz / 0.5V

Characteristics(L,Q vs. Frequency)







CHARACTERISTICS RoHS Version: 1.0 COMPLIANT ITEM P/N SF1608L-SERIES **TEST INSTRUMENT** Agilent4291B / Agilent4338B **TEST FREQUENCY PRODUCT SMD Inductor For Power Line** $2.5 \sim 7.9 \text{ MHz} / 0.5 \text{V}$

Reliability and Test Condition

Item	Specifications	Test conditions
Solderability	The metalized area must have 90% minimum solder coverage.	Dip pads in flux and dip in solder pot(96.5 Sn/3.5 Ag solder) at $255^{\circ}\text{C} \pm 5^{\circ}\text{C}$.
Resistance to soldering heat	change in dimensions.	Inductors shall be reflowed onto a PC board using 96.5 Sn/3.5 Ag solder paste. Solder process shall be at a maximum temperature of 260°C. For 96.5 Sn/3.5 Ag solder paste:>217°C for 90 seconds
Vibration	change in dimensions.	Solder specimen inductor on the test printed circuit board. Apply vibrations in each of the x,y and z directions for 2 house for a total of 6 hours. Frequency: 10~50 Hz Amplitude: 1.5mm
High temperature resistance	change in dimensions.	Inductors shall be subjected to temperature 125±2°C for 50±12 hours. Measure the test items after leaving the inductors at room temperature and humidity for 2 hours.
Static Humidity	Inductors must not have a shorted or openwinding.	Inductors shall be subjected to temperature 85±2°C and 90 to 95%RH. for ten 24-hours. Measure the test items after leaving the inductors at room temperature and humidity for 2 hours.
Component adhesion (push test)	Inductors shall be subjected to 0.9Kg	Inductors shall be reflow soldered (255°C ±5°C for 10 seconds) to a tinned copper substrate. A force gauge shall be applied to the side of the component. The device must withstand the stated force without a failure of the termination.



Version: 1.0	CHARACTER	RISTICS	RoHS COMPLIANT
ITEM P/N	SF1608L-SERIES	TEST INSTRUMENT	Agilent4291B / Agilent433

ITEM P/N	SF1608L-SERIES	TEST INSTRUMENT	Agilent4291B / Agilent4338B
PRODUCT	SMD Inductor For Power Line	TEST FREQUENCY	2.5 ~ 7.9 MHz / 0.5V

Reliability and Test Condition

Item	Specifications	Test conditions		
Low	There must be no case deformation or	Inductors shall be subjected to temperature		
temperature	change in dimensions.	-40±2°C for 48±12 hours.		
storage Inductance must not change more		Measure the test items after leaving the inductors		
	than the stated tolerance.	at room temperature and humidity for 1 to 2		
		hours.		
Resistance	There must be no case deformation,	Inductors must withstand 6 minutes of alcohol or water.		
to	change in dimensions, or obliteration			
solvent	of marking.			
Thermal	There must be no cose deformation on	Inductors shall be subjected to 10 cycles to the		
		the following temperature cycle:		
]	Inductance must not change more	the following temperature cycle.		
	than the stated tolerance.			
	than the stated tolerance.	1 cycle 30 min. 30 sec 30 min.		
		Measure the test items after leaving the induat room temperature and humidity for 2 hou		

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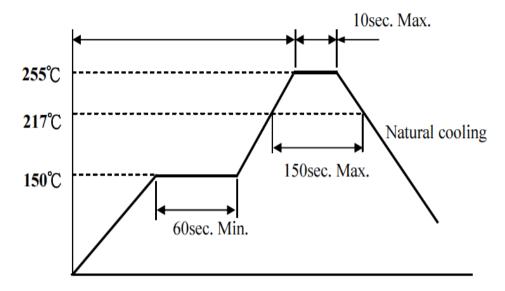


JNGTRON TECHNOLOGY Co.,Ltd.

Version: 1.0	CHARACTER	CHARACTERISTICS			
ITEM P/N	SF1608L-SERIES	TEST INSTRUMENT	Agilent4291B / Agilent4338B		
PRODUCT	SMD Inductor For Power Line	TEST FREQUENCY	2.5 ~ 7.9 MHz / 0.5V		

Recommended Reflow Pattern

Reflow: until two times



Iron Soldering

Use a solder iron of less than 30W when soldering ,do not allow the soldering iron t directly touch the Ceramic body outside of terminal electrode.

4 seconds max. at 260° C.

Attention in Case of Using

In case of using product ,please avoid following matters:

Splashing water or salt water

Dew condenses

Toxic gas (Hydrogen sulfide, Sulfurous acid ,Chlorine, Ammon

Vibrations or shocks which exceed the specified condition

Please be careful for the stress to this product by board flexure or something after the mounting.

Others

1 Operating temperature range : Ceramic Series :-40~+125°C

2 Storage condition : Temperature 20°~25°C, Relative Humidity 40%~60%

3 Recommended wire wound inductors should be used within 6 months from the time of delivery.

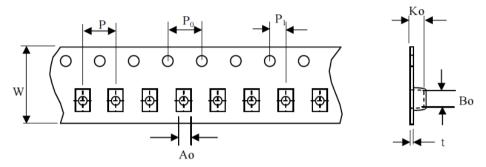


Version: 1.0	PACKING FOR SMD ROHS COMPLIANT				
ITEM P/N	SF1608L-SERIES	TEST INSTRUMENT	Agilent4291B / Agilent4338B		
PRODUCT	SMD Inductor For Power Line	TEST FREQUENCY	2.5 ~ 7.9 MHz / 0.5V		

Packaging

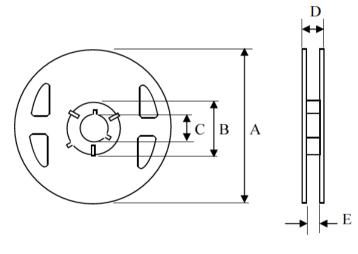
The packaging must be done not to receive any damage during transporting and storing.

Tape dimensions



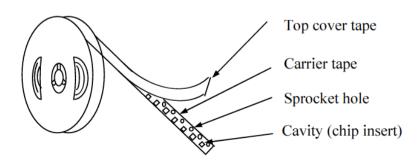
						(Dimensio	ns m mm,	Tolerance · ±0.1)
Symbol	W	P	\mathbf{P}_{0}	P_1	Ao	Во	Ko	t
Dimension	8	4	4	2	1.3	1.8	1.1	0.22

Reel dimensions



(Dim	(Dimensions in mm)			
Symbol	T			
A	180			
В	60			
С	13			
D	14.4			
Е	8.4			

Tapping figure

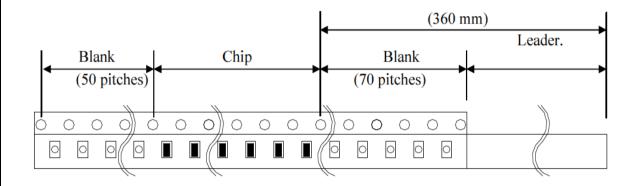




Version: 1.0	PACKING FOR SMD		RoHS COMPLIANT
ITEM P/N	SF1608L-SERIES	TEST INSTRUMENT	Agilent4291B / Agilent4338B
PRODUCT	SMD Inductor For Power Line	TEST FREQUENCY	2.5 ~ 7.9 MHz / 0.5V

Packaging Form

There shall not continuation more than two vacancies of the product.

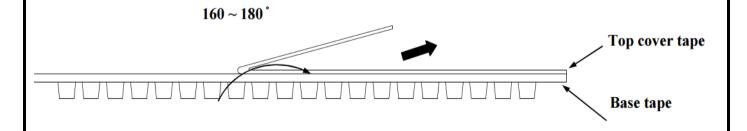


Cover Tape Peel Strength

The force for tearing off cover tape is 0.1~0.6(N) in the arrow direction at the following conditi

Temperature : $5 \sim 35^{\circ}$ C Humidity : $45 \sim 85\%$

Atmospheric pressure: 860 ~ 1060 hpa



Packing Quantity

φ180 mm reel type: 4,000 pcs./reel

