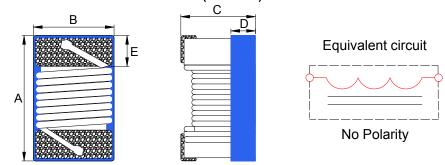


1. External Dimensions (Unit:m/m)



TYPE	METRIC	Α	В	C	D	Е	Q'Ty / Reel
ALSF201212	0805	2.4Max	1.75Max	1.52Max	0.65Ref	0.44Ref	2000

2. Part Number Code

ALSF 201212 K 1R0 A B C D

A: Series Name Wire Wound Inductors

B: Dimensions(mm) 201212: 0805

C: Tolerance K: ±10%
D: Inductance 1R0=1.0uH

3. Electrical Characteristics

Part Number	Inductance	Inductance	Q/MHz	SRF(Min.)	RDC	Irms
	(uH)/MHz	Tolerance	Min.	(MHz)	(Ω)Max.	(mA)
ALSF201212K1R0	1.0/7.9	±10%	12/7.9	360.0	1.0	430.0

Notes:

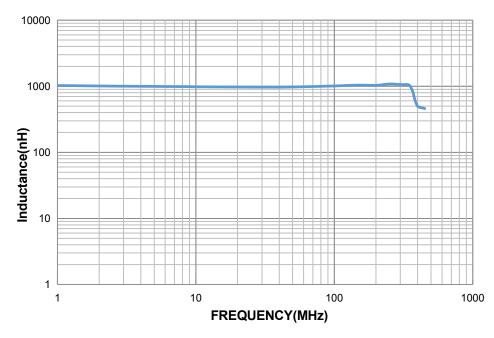
- 1) All test data is referenced to 25°C ambient.
- 2) Operating temperature range -40 $^{\circ}$ C to +85 $^{\circ}$ C,(Including self temperature rise).
- L.Q.SRF:agilent/HP E4991A+agilent/HP16197A.
 (the electrical specification test by the smallest gap position)or HP16193A.
- 4) Rdc: chroma milliohmmeter 16502, or equivalent.
- 5) Irms :DC current(A) that will cause an approximate △T of 40 °C.



4. Material list

Item	Material		
Core	Ferrite core		
Wire	Copper wire		
Ероху	UV Epoxy		

Curve:







5. Reliability Test

Item	Specifications	Test conditions
5.1 High temperature storage test	No visible mechanical damage. Inductance change: Within ±10%.	Temperature: 85±2°C. Duration:500hrs. Measured at room temperature after placing for 24±4 hrs. Temp 85°C High temperature 25°C
5.2 Temperature cycling test	No visible mechanical damage. Inductance change: Within ±10%.	Condition for 1 cycle. Step1: -40±2°C 30min Min. Step2: 85±2°C, transition time 2min Max. Step3: 85±2°C 30min Min. Step4: Low temp, transition time 2min Max. Number of cycles: 100. Measured at room temperature after placing for 24±4 hrs. Temp 85°C Change time<2min Time -40°C
5.3 Biased humidity test	No visible mechanical damage. Inductance change: Within ±10%.	Humidity :85% \pm 3 RH. Temperature: 60°C \pm 2°C. Duration : 500hrs. Measured at room temperature after placing for24 \pm 4 hrs.
5.4 Operational life test	No visible mechanical damage. Inductance change: Within ±10%.	Temperature: $85^{\circ} \pm 2^{\circ}$. Duration :500hrs. Measured at room temperature after placing for24±4 hrs.
5.5 Resistance to solvent test	No visible mechanical damage. Inductance change: Within ±10%.	Add aqueous wash chemical - OKEM clean or equivalent.
5.6 Vibration test	No visible mechanical damage. Inductance change: Within ±10%.	The sample shall be soldered onto the printed circuit board and when a vibration having an amplitude of 1.52mm and a frequency of from 10 to 55Hz/1 minute repeated should be applied to the 3 directions (X,Y,Z) for 2 hours each.(A total of 6 hours)

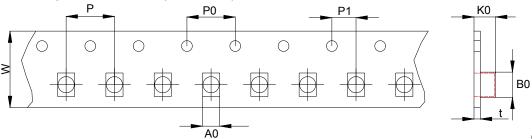


Item	Specifications	Test conditions
5.7 Resistance to soldering heat test	No visible mechanical damage. Inductance change: Within ±10%.	Temperature (°C): 260 ±5 (solder temp). Time (s): 10 ±1. ramp/immersion and emersion rate: 25mm/s ±6 mm/s. Number of heat cycles:1.
5.8 Solderability test	More than 95% of the terminal electrode should be covered with solder.	Steam Aging: 8 hours ± 15 min. Preheat: 150°C,60sec. Solder: Sn99.5%-Cu0. 5%. Temperature: 245±5°C. Flux for lead free: Rosin. 9.5%. Dip time: 4±1sec. Depth: completely cover the termination.
5.9 Terminal strength (SMD) test	No visible mechanical damage.	Preconditioning: Run through IR reflow for 2 times. (IPC/JEDECJ-STD-020D Classification Reflow Profiles With the component mounted on a PCB with the device to be tested, apply a force(>0805:1kg, <=0805:0.5kg) to the side of a device being tested. This force shall be applied for 10 +1 seconds. Also the force shall be applied gradually as not to apply a shock to the component being tested.



6. Packing

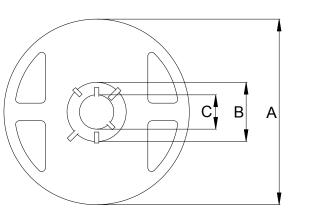
6.1 Tape Dimensions(Unit: mm)

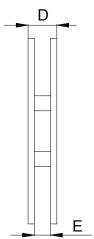


(Tolerance: ±0.1)

TYPE	w	Р	Ро	P1	Ao	Во	K0	t
ALSF201212	8.0	4.0	4.0	2.0	2.0	2.5	1.5	0.23

6.2 Reel Dimensions(Unit: mm)

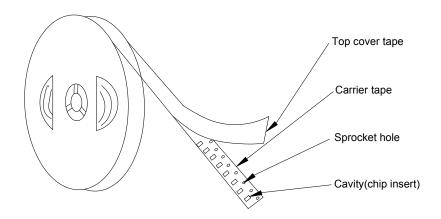




(Dimensions in mm)

Symbol	Α	В	С	D	E
Т	180.0	60.0	13.0	14.4	8.4

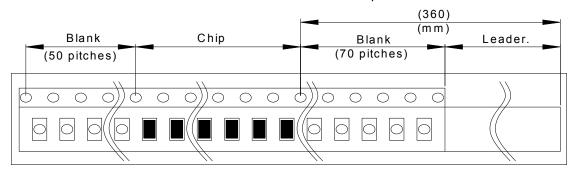
6.3 Tapping figure





6.4 Packaging Form

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

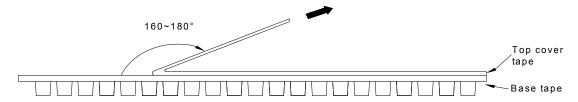


6.5 Cover Tape Peel Strength

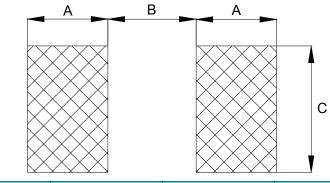
The force for tearing off cover tape is 0.1~0.6(N) in the arrow direction at the following conditions:

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

Atmospheric pressure: 860 ~ 1060 hpa



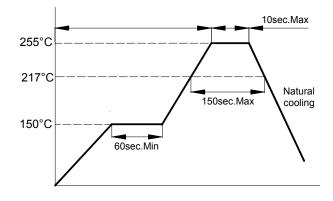
6.6 Recommended Footprint



Unit:mm

TYPE	METRIC	Α	В	С
ALSF201212	0805	1.02	0.76	1.78

6.7 Recommended Reflow Pattern





6.8 Packaging

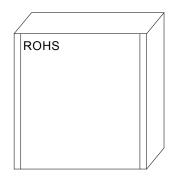
6.8.1 The inner box specification: 195*192*65MM

Packing quantity: 10000PCS/ box

Sealing bag: 37*45CM

Job description: putting the air sealing bag products placed

inside the box.



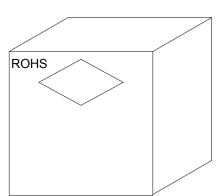
6.8.2 The outside box specification: 410*405*165MM

Packing quantity: 80000PCS/ box.

Job description: will be outside the box bottom

sealed, inner box into the box.

- a. With transparent tape sealed box at the top.
- b. The specified location with a box labels in the outer box.
- c. If the mantissa box under a FCL with inner box for filling full.



6.9 Storage

- a.To maintain the solderability of terminal electrodes and to keep the packing material in good condition, temperature and humidity in the storage area should be controlled.
- b. Recommended conditions: -10 °C ~40 °C, 70 %RH (Max).
- c.Even under ideal storage conditions, solderability of products electrodes may decrease as time passes. For this reason, product should be used with one year from the time of delivery.
- d. In case of storage over one year, solderability shall be checked before actual usage.

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