

SK3632LD

Low Pass LC Filter
Revision 2 : Sept. 2017





1. Scope

This specification applies to SK3632LD of Low Pass LC Filter.

2. Product Description

Multi-layer Chip Low Pass LC Filter

3. Electrical Characteristics

SK3632LD
2025.0 MHz
1805~2025 MHz
1.4 dB max
10 dB min. at 2400~2500MHz
25 dB min. at 3760~4050MHz
25 dB min. at 5150~6000MHz
15 dB min
50 ohm

- a) Operating and storage temperature range (individual chip without packing): -40°C~ +85°C.
- b) Storage temperature range (packaging conditions): -10°C~ +40°C and RH 70% (Max.).
- c) Test equipment: Network Analyzer:E5071C.
- d) Electrical Performance: See Fig. 3-1.

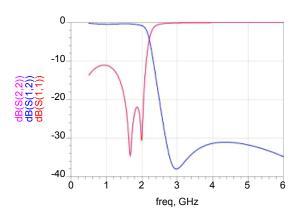


Fig. 3-1



4. Shape and Dimensions

1) Dimensions and terminal configuration: See Fig. 4-1

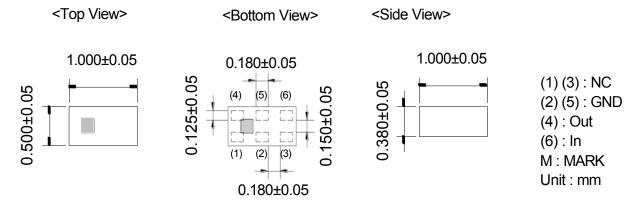
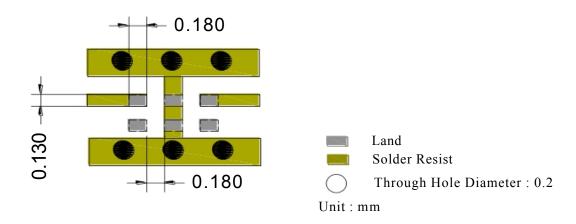


Fig. 4-1

2) Recommended Land Pattern: See Fig.4-2



* Line width should be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.

Fig. 4-2

5. Test and Measurement Procedures

5.1 Test Conditions

Unless otherwise specified, the standard atmospheric conditions for measurement/test as:

- a. Ambient Temperature: 20±15°C
- b. Relative Humidity: 65±20%
- c. Air Pressure: 86 KPa to 106 KPa

If any doubt on the results, measurements/tests should be made within the following limits:

- a. Ambient Temperature: 20±2°C
- b. Relative Humidity: 65±5%
- c. Air Pressure: 86KPa to 106 KPa

5.2 Visual Examination

a. Inspection Equipment: 20 X magnifier



5.3	Re	lia	bi	litv	Te	st

Items	Requirements	Test Methods and Remarks		
5.3.1 Terminal Strength	No visible mechanical damage.	Solder the inductor to the testing jig (glass epoxy board shown as the following figure) using leadfree solder. Then apply a force in the direction of the arrow. 5N force for1608 series. Keep time: 10±1sec.		
		Chip 5N/10±1s Speed: 1.0mm/s Glass Epoxy Board		
5.3.2 Resistance to Flexure	No visible mechanical damage.	e. Solder the chip to the test jig (glass epoxy board) usin leadfree solder. Then apply a force in the direction sho as the following figure. Solder the chip to the test jig (g epoxy board) using leadfree solder. Then apply a force the direction. Flexure: 2mm Pressurizing Speed: 0.5mm/sec Keep time: ≥30 sec		
	Unit: mm R10	20 10 Flexure: 2		
5.3.3 Vibration	No visible mechanical damage.	Solder the chip to the testing jig (glass epoxy board shown as the following figure) using leadfree solder. The chip shall be subjected to a simple harmonic motion having total amplitude of 1.5mm, the frequency being varied uniformly between the approximate limits of 10 and 55 Hz. The frequency range from 10 to 55 Hz and return to 10 Hz shall be traversed in approximately 1 minute. This motion shall be applied for a period of 2 hours in each 3 mutually perpendicular directions (total of 6 hours). Solder Mask Glass Epoxy Board Cu Pad		
5.3.4 Dropping	No visible mechanical damage.	Drop the chip 10 times on a concrete floor from a height of 100 cm.		
5.3.5 Solderability	No visible mechanical damage. Wetting shall be exceeded 75% coverage.	Solder temperature: 240±2°C Duration: 3sec Solder: Sn/3.0Ag/0.5Cu Flux: 25% Resin and 75% ethanol in weight		
5.3.6 Resistance to Soldering Heat	No visible mechanical damage.	Solder temperature: 260±5°C Duration: 5 sec Solder: Sn/3.0Ag/0.5Cu Flux: 25% Resin and 75% ethanol in weight The chip shall be stabilized at normal condition for 1~2 hours before measuring.		



No visible mechanical damage. Satisfy electrical Characteristic.	Temperature and time: -40°C for 30±3 min→85°C for 30±3min Transforming interval: Max. 20 sec. Tested cycle: 100 cycles The chip shall be stabilized at normal condition for 1 hours before measuring. 30 min. 30 min. 30 min. 20sec. (max.)	
No visible mechanical damage. Satisfy electrical Characteristic. No visible mechanical damage. Satisfy electrical Characteristic.	Temperature: 60±2°C Humidity: 90% to 95% RH Duration: 500+24 hours The chip shall be stabilized at normal condition for 1~2 hours before measuring. Temperature: 85±2°C Duration: 500+24 hours The chip shall be stabilized at normal condition for 1~2 hours before measuring.	
	No visible mechanical damage. Satisfy electrical Characteristic. No visible mechanical damage. Satisfy electrical Characteristic. No visible mechanical damage. Satisfy electrical	

6. Packaging and Storage

6.1 Packaging

There is one type of packaging for the Low pass filter. Please specify the packing code when ordering.

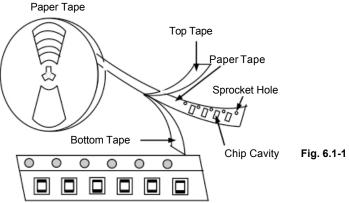
6.1.1 Tape Carrier Packaging:

Packaging code: T

- a. Tape carrier packaging are specified in attached figure Fig. 6.1-1~3
- b. Tape carrier packaging quantity please see the following table:

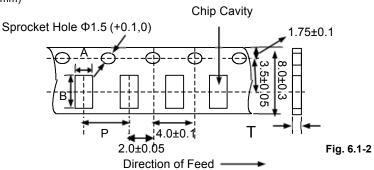
Туре	1005[0402]
Tape	Paper Tape
Quantity	4K

(1) Taping Drawings (Unit: mm)



Remark: The sprocket holes are to the right as the tape is pulled toward the user.

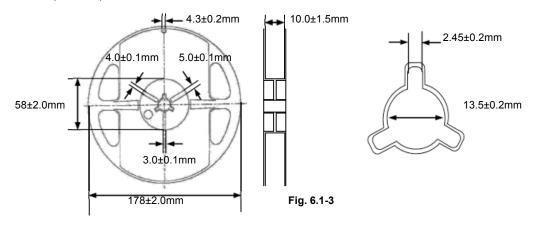
(2) Taping Dimensions (Unit: mm)





Туре	Chip Thickness	Α	В	Р	T max
SK3632LD	0.60±0.10	0.6±0.1	1.10±0.10	4.0±0.05	0.6

(3) Reel Dimensions (Unit: mm)



6.2 Storage

- a. The solderability of the external electrode may be deteriorated if packages are stored where they are exposed to high humidity. Package must be stored at 40°C or less and 70% RH or less.
- b. The solderability of the external electrode may be deteriorated if packages are stored where they are exposed to dust of harmful gas (e.g. HCl, sulfurous gas of H₂S).
- c. Packaging material may be deformed if package are stored where they are exposed to heat of direct sunlight.
- d. Solderability specified in **Clause 5.3.6** shall be guaranteed for 6 months from the date of delivery on condition that they are stored at the environment specified in **Clause 3**. For those parts, which passed more than 6 months shall be checked solder-ability before use.

7. Recommended Soldering Technologies

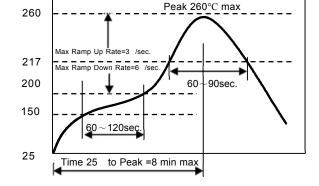
7.1 Re-flowing Profile

Preheat condition: 150 ~200°C/60~120sec. Allowed time above 217°C: 60~90sec.

Max temp: 260°C

Max time at max temp: 10sec. Solder paste: Sn/3.0Ag/0.5Cu Allowed Reflow time: 2x max

[Note: The reflow profile in the above table is only for qualification and is not meant to specify board assembly profiles. Actual board assembly profiles must be based on the customer's specific board design, solder paste and process, and should not exceed the parameters as the Reflow profile shows.]



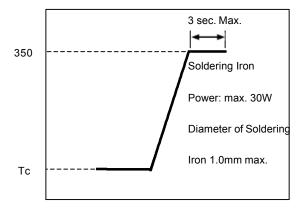
7.2 Iron Soldering Profile

Iron soldering power: Max.30W Pre-heating: 150 °C / 60 sec.

Soldering Tip temperature: 350 Max.

Soldering time: 3 sec Max. Solder paste: Sn/3.0Ag/0.5Cu Max.1 times for iron soldering

[Note: Take care not to apply the tip of the soldering iron to the terminal electrodes.]



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CER0813B MAPDCC0005 3A325 40287 41180 ATB3225-75032NCT BD0810N50100AHF JHS-115-PIN DC0710J5005AHF

DC2327J5005AHF 43020 LFB2H2G60BB1C106 LFL15869MTC1B787 X3C19F1-20S XC3500P-20S 10013-20 SF2194E

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