

SPECIFICATION FOR APPROVAL

CUSTOMER'S APPROVAL CHOP	
Approval's condition:	
Approved date:	

KINDLY RETURN A SET WITH YOUR COMPANY'S OFFICIAL
STAMP ON APPROVAL OF THIS ITEM

CUSTOMER'S NAME:

CUSTOMER'S MODEL NO. :

CUSTOMER'S PART NO. :

DESCRIPTION:

EMC Components

Semitel'S MODEL NO. :

SHCB-2012KF Series

VERSION:

A

DATE:

2024/9/5

Attachments:

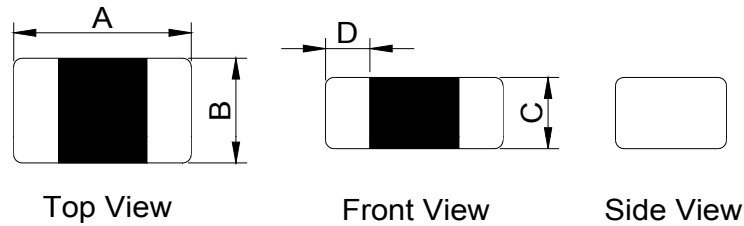
- Product specification
- Sample Qty. :
- Test Data

Prepared By	Checked By	Approved By
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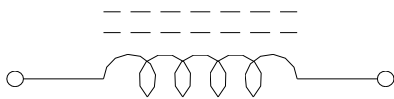
Product Specification

1. Physical Dimensions (Unit:mm)



- A 2.0±0.2
- B 1.25±0.2
- C 0.85±0.2
- D 0.5±0.3

2. Connection



3. Electrical Characteristics

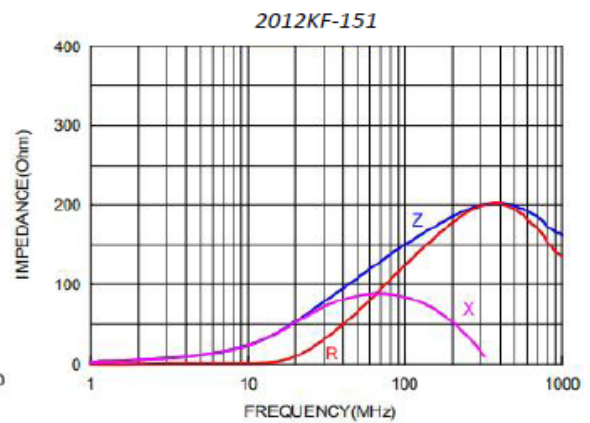
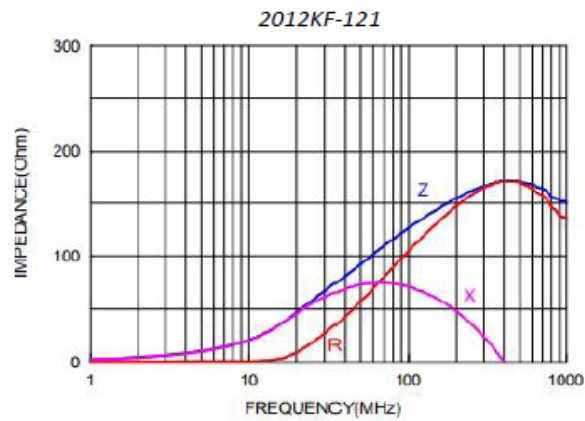
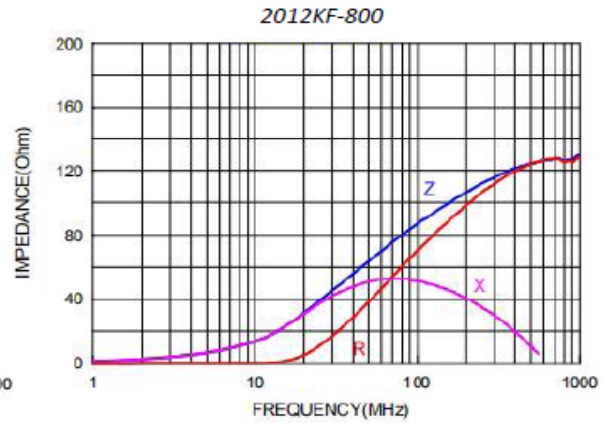
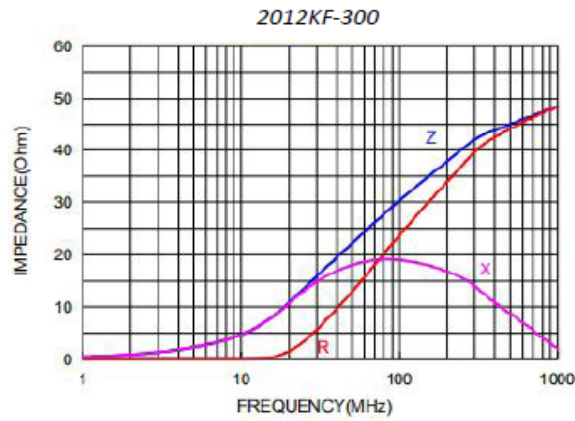
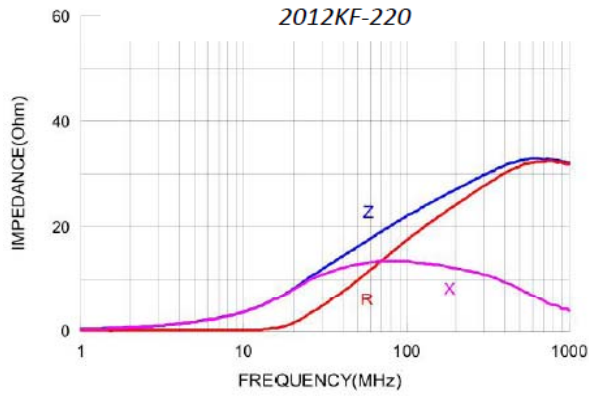
- (1).Rated Current: Temp.rise 30°C Typ
- (2).Operating Temperature: -40°C up to +125°C
- (3).Storage Temperature: 15°C up to 25°C, 65% RH max

Part Number	Impedance (Ω)	Test Frequency (MHz)	DCR (Ω) MAX.	Rated Current (mA) MAX.
SHCB-2012KF-220-00A	22±25%	100	0.01	6000
SHCB-2012KF-300-00A	30±25%	100	0.04	3000
SHCB-2012KF-800-00A	80±25%	100	0.04	3000
SHCB-2012KF-101-H00A	100±25%	600mV/100	0.02	4000
SHCB-2012KF-121-00A	120±25%	100	0.1	2000
SHCB-2012KF-151-00A	150±25%	100	0.2	800
SHCB-2012KF-151-H00A	150±25%	100	0.1	2000
SHCB-2012KF-221-00A	220±25%	100	0.1	2000
SHCB-2012KF-221-H00A	220±25%	600mV/100	0.04	3000
SHCB-2012KF-301-00A	300±25%	100	0.2	1000
SHCB-2012KF-471-00A	470±25%	100	0.2	1000
SHCB-2012KF-601-00A	600±25%	100	0.2	1000
SHCB-2012KF-601-H00A	600±25%	100	0.15	2000

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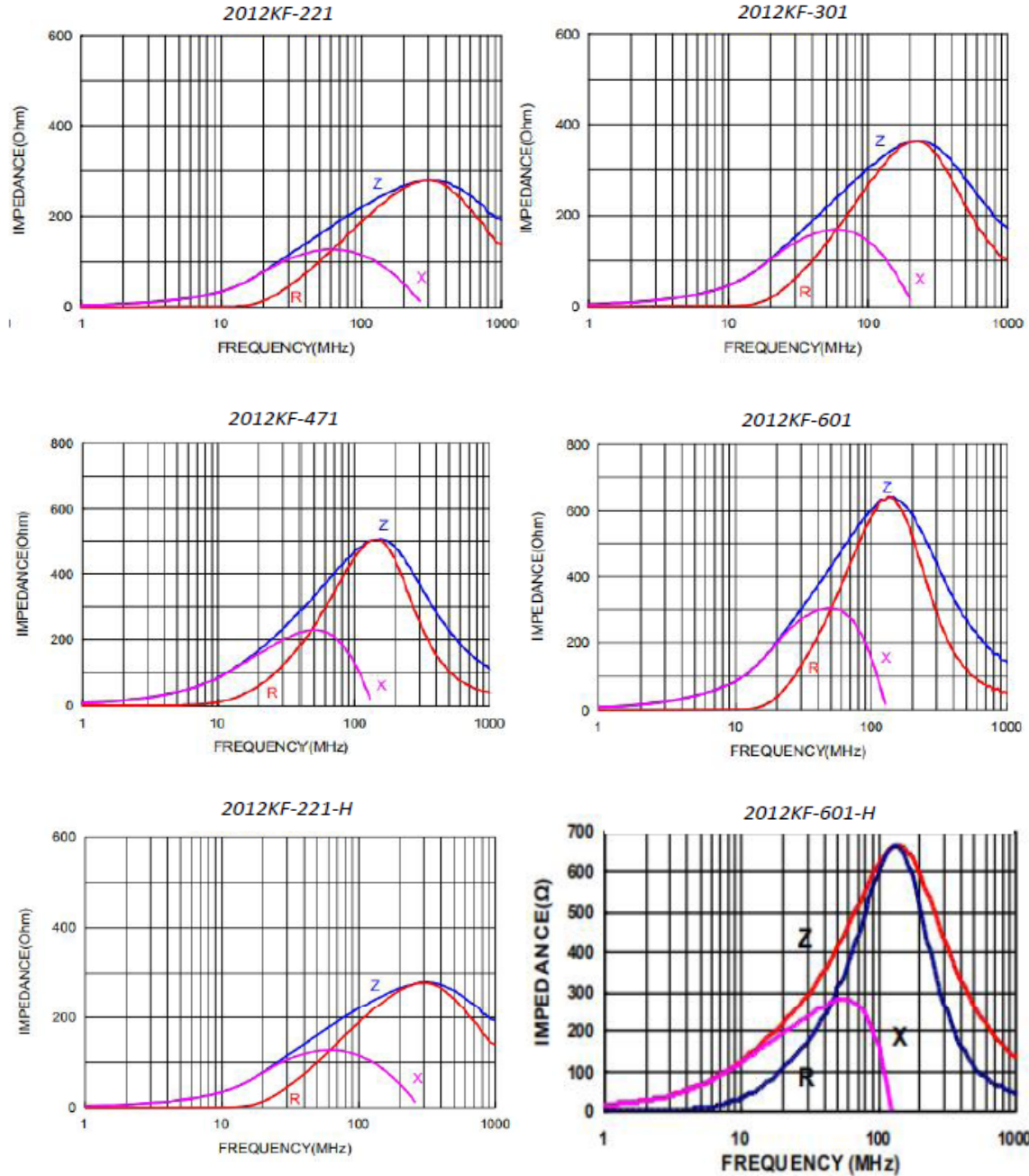
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4.Characteristics (Reference)



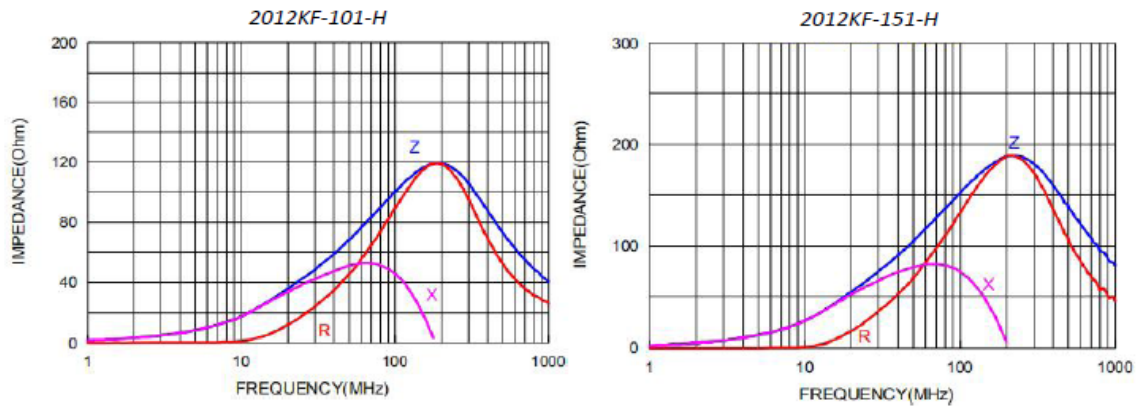
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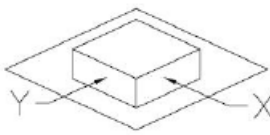
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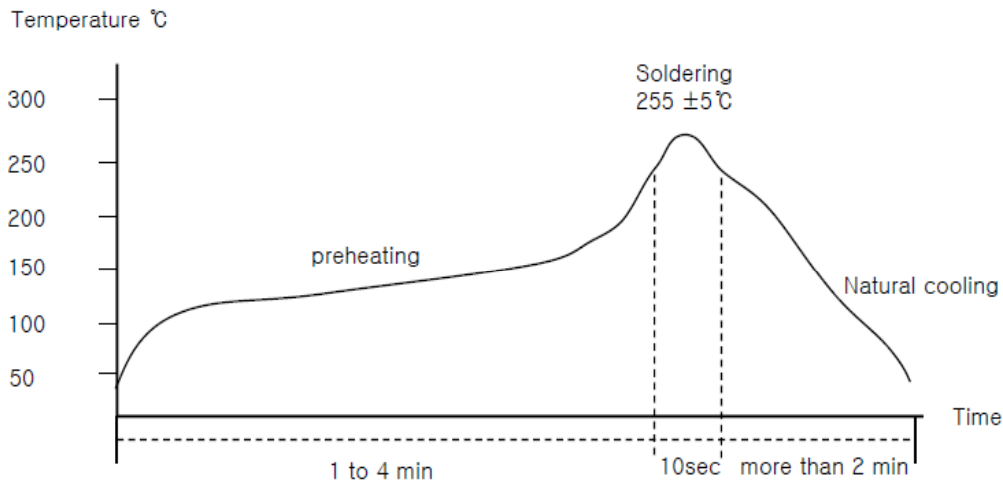
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5. Reliability Testing

Operating Temperature	-40 to +125 °C (Contain Heating coil)
Appearance Inspection	No external defects by visual inspection
Terminal Strength 	After soldering , between copper plaet and terminals of coils , push in two directions of X , Y with standing 10N(1.02kg) for 10+/-2 sec. Terminal should not peel off. (Refer to figure at right)
Heat endurance of reflow soldering	Refer to figure
Insulating resistance	Over 10MΩ at 50V D.C . between wire and core
Dielectric Strength	Apply at 0.25KV 3mA for 1S between wire and core
Temperature characteristics	Inductance coefficient (0~2,000) × 10 / °C (- 40~ + 125 °C)
Humidity characteristics	Inductance deviation within ± 10% , after 96 hours in 90~95% relative humidity at 40 ± 2 °C and 1 hours drying under normal condition
A test is made under the above mentioned condition , and it is kept for 2 hours in the normal	

6. IR Reflow profile



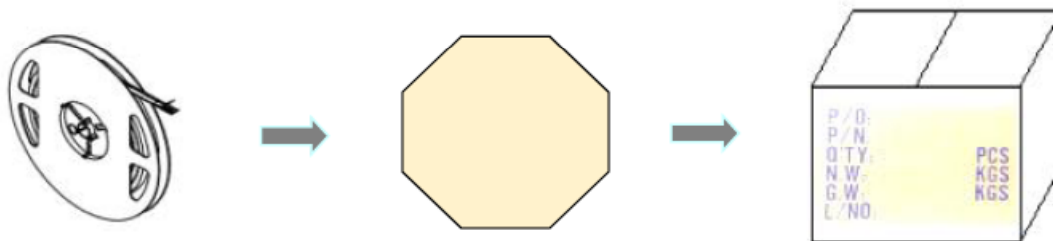
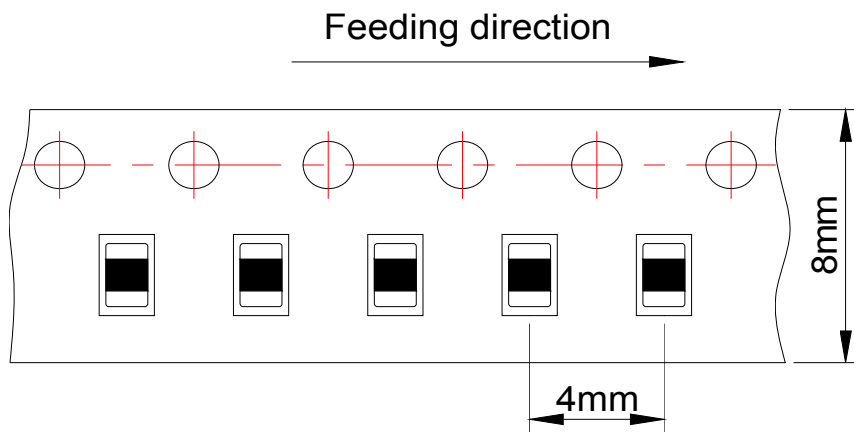
Temperature and humidity . After that , no mechanical and electrical defect should be found .

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6.Packing Request

- (1). Every roll of the carrier tape can contain 4000pcs products.
- (2). Every small packing box contains 5 rolls of carrier tape. Total quantity: 20000pcs.
- (3). Every carton box contains 10 small packing boxes. Total quantity: 200000pcs.



Plastic reel: 7' (diameter 178mm)

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