

## 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:**

**Common Mode Line Filter**

**Semitel'S MODEL NO. :**

**SELCM-9070F**

**VERSION:**

**A**

**DATE:**

**2024/9/13**

**Attachments:**

- ☐ Product specification
- ☐ Sample Qty. :
- ☐ Test Data

Prepared By	Checked By	Approved By
Hebe Deng 2024/9/13	Ben Lin 2024/9/13	Eric Chang 2024/9/13

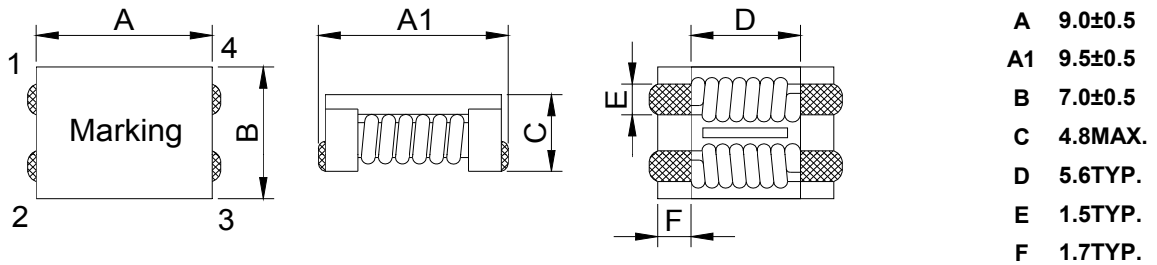
Semitel International Ltd.,	TEL: 886-2-86922121      FAX: 886-2-26483379
www.semitelint.com	12F, No.183, Sec.1, Datong Rd., Xizhi Dist., New Taipei City 22145, Taiwan

<b>Semitel'S MODEL NO. :</b>	<b>SELCM-9070F</b>	<b>CUSTOMER'S MODEL NO. :</b>	
<b>VERSION:</b>	<b>A</b>	<b>CUSTOMER'S PART NO. :</b>	
<b>DATE:</b>	<b>2024/9/13</b>		

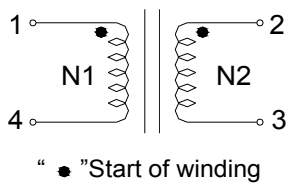
Semitel International Ltd.,

## Product Specification

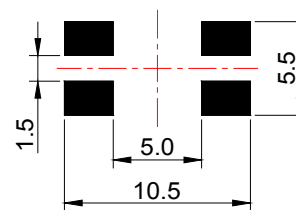
### 1.Physical Dimensions (Unit:mm)



### 2. Connection



### 3.Recommended Pad Layout (Unit:mm)



### 4.Electrical Characteristics

- (1). Rated current: temp.rise 40°C Typ
- (2). Operating temperature: -40°C to +125°C
- (3). Storage temperature: 15°C up to 25°C, 65% RH max
- (4). The temperature of electrical characteristic test is 25°C indoor temperature

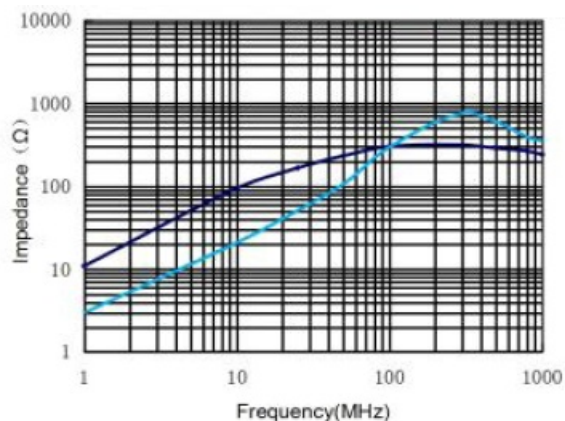
Part Number	Impedance (Ω)		Test Frequency	DCR (mΩ) MAX.	Rated Current (A) MAX.	Rated Voltage (Vdc) MAX.	Insulation Resistance 80V/3S (MΩ) MIN.	Marking
	MIN.	TYP.						
SELCM-9070F-301-02A	225	300	100MHZ	6	6.5	80	10	301
SELCM-9070F-501-02A	450	600	100MHZ	8	6.0	80	10	501
SELCM-9070F-601-02A	500	700	100MHZ	10	5.5	80	10	601
SELCM-9070F-701-02A	500	700	100MHZ	10	5.5	80	10	701
SELCM-9070F-102-02A	750	1000	100MHZ	13	5.0	80	10	102
SELCM-9070F-152-02A	1000	1500	100MHZ	15	4.5	80	10	152
SELCM-9070F-222-02A	1700	2200	100MHZ	50	3.3	80	10	222
SELCM-9070F-272-02A	2000	2700	100MHZ	80	2.5	80	10	272
SELCM-9070F-302-02A	2500	3000	100MHZ	85	2.0	80	10	302
SELCM-9070F-402-02A	3300	4000	20~50MHz	100	1.8	80	10	402

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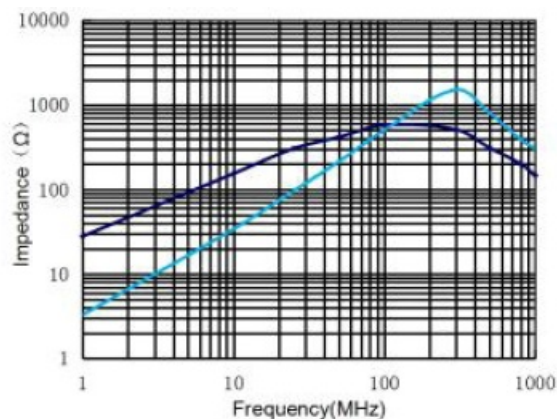
## Product Specification

### 5. Characteristics (Reference)

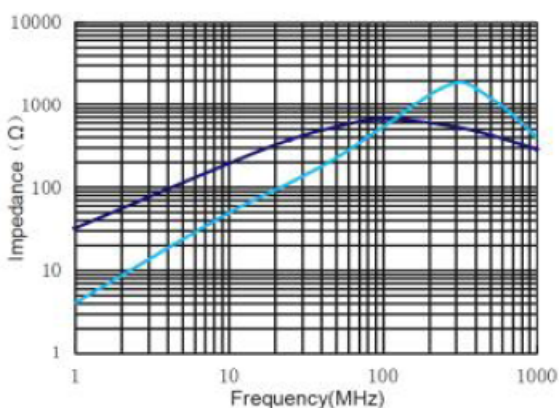
SELCM-9070F-301



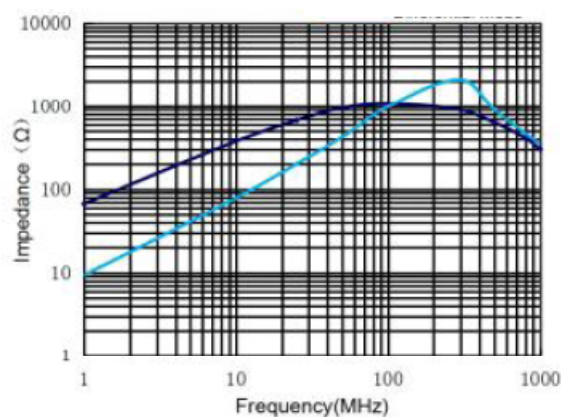
SELCM-9070F-501



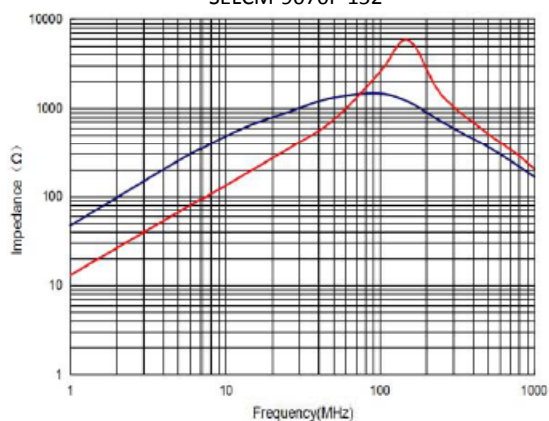
SELCM-9070F-601&amp;701



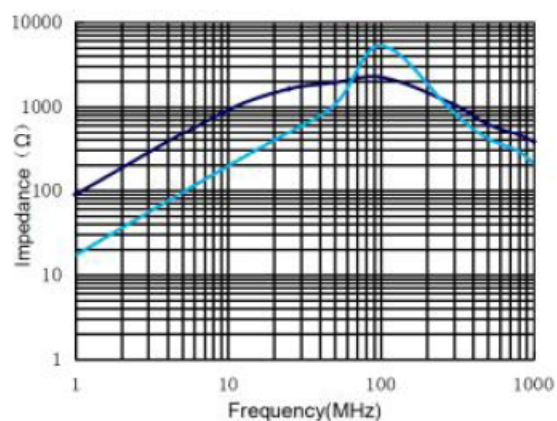
SELCM-9070F-102



SELCM-9070F-152



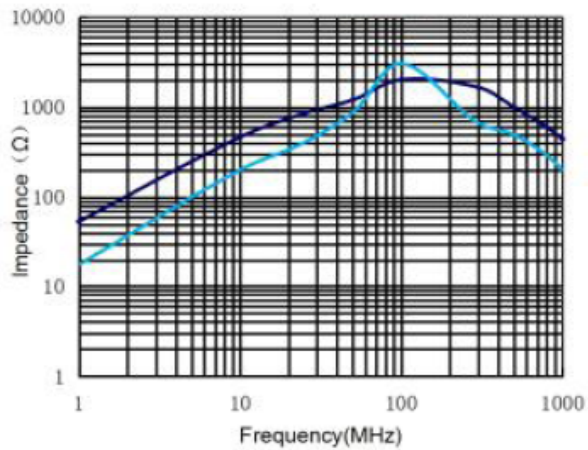
SELCM-9070F-222



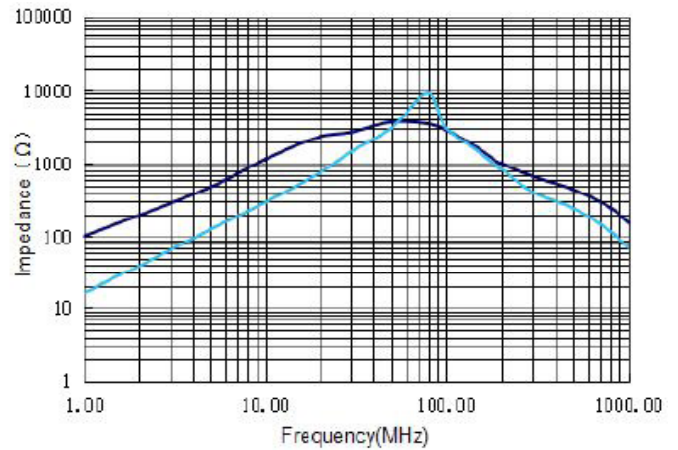
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VERSION:	A	CUSTOMER'S PART NO. :	
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## Product Specification

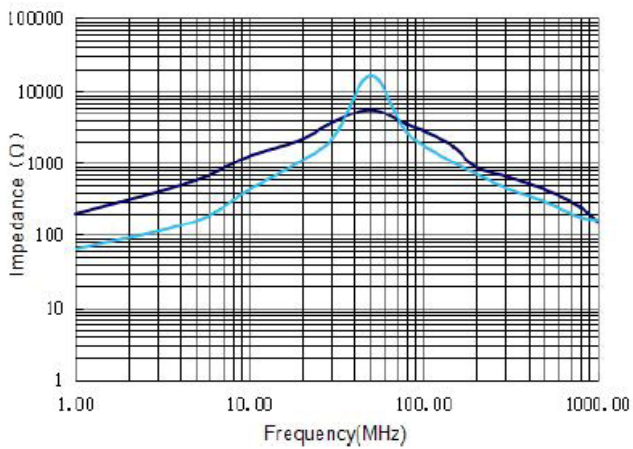
SELCM-9070F-272



SELCM-9070F-302



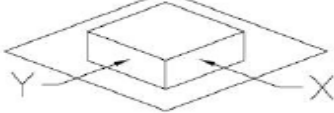
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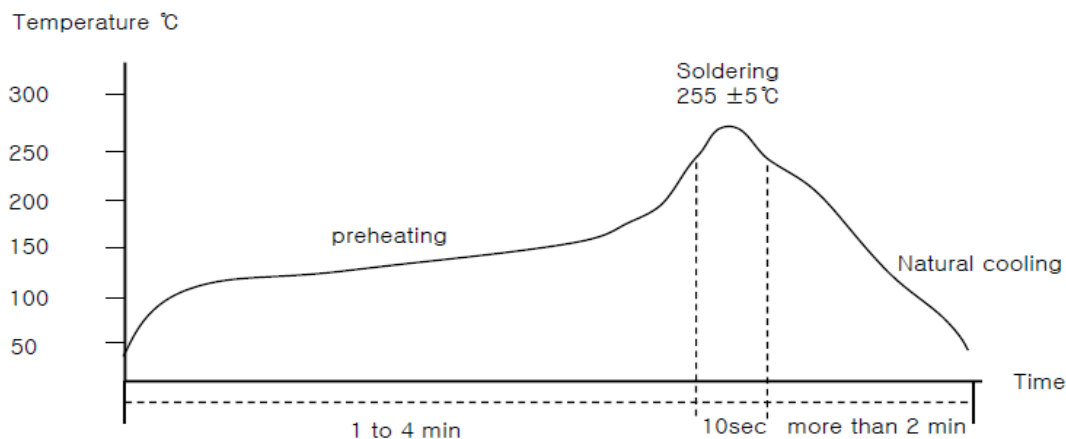
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## Product Specification

### 6. 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 80V D.C . between wire and core
Dielectric Strength	Apply at 0.5KV 1mA for 3S 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	

### 7. IR Reflow profile



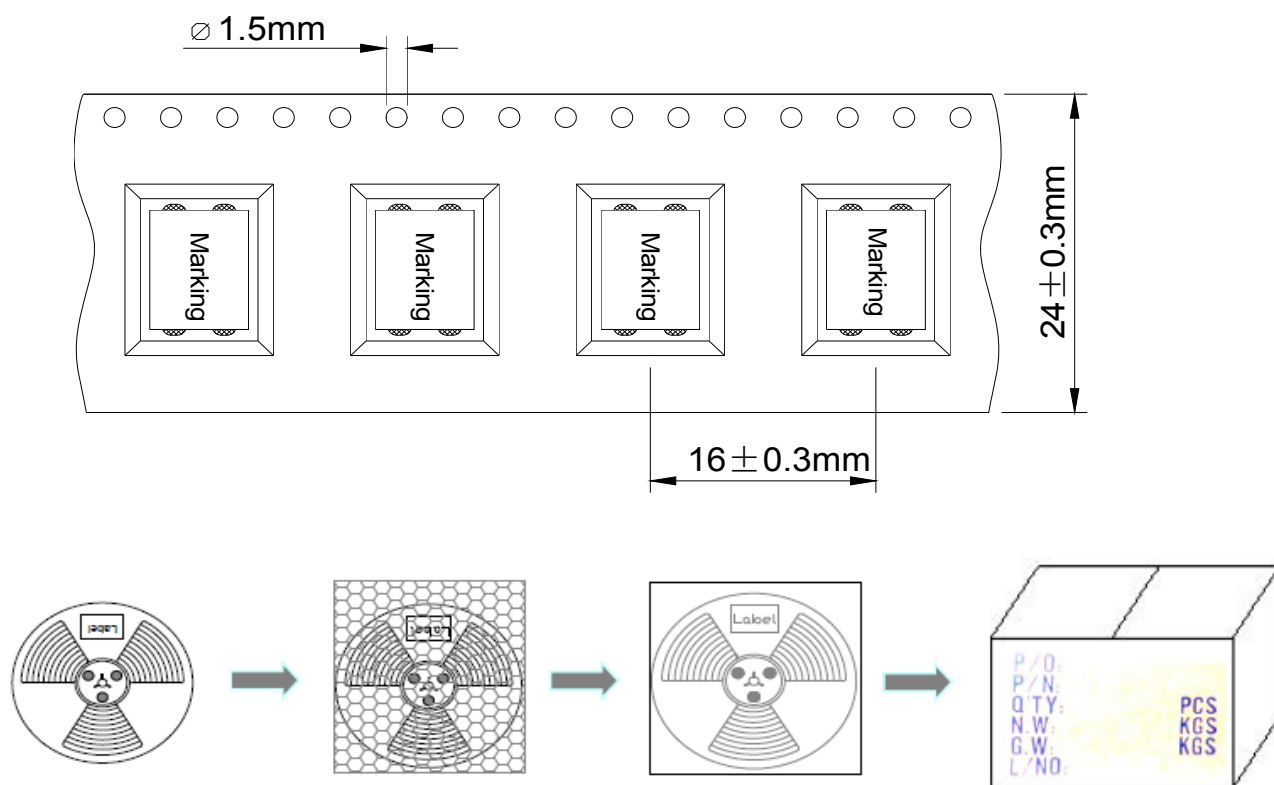
Temperature and humidity . After that , no mechanical and electrical defect should be found .

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### 8.Packing Request

- (1). Every roll of the carrier tape can contain 700pcs products.
- (2). Every small packing box contains 2 rolls of carrier tape. Total quantity: 1400pcs.
- (3). Every carton box contains 5 small packing boxes. Total quantity: 7000pcs.



Plastic reel: 13' (diameter 330mm)

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