# 😂 SUNTSU

## Multilayer Ceramic Band Pass Filter SRFBF-5H5B1J-CMBB

5.7mm x 5.16mm

#### Features

- Miniature Footprint
- Low Insertion Loss
- High Attenuation on Harmonic Suppressed
- LTCC Process

Applications

- 1160~1300MHz Working Frequency
- Private 5G



Part Number	ring Guide
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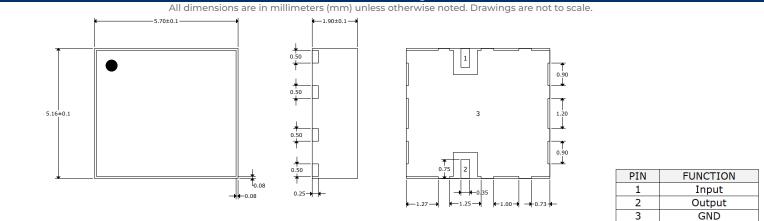
S RF BF - 5H5B 1J - CM BB						
SUNTSU	RF COMPONENT	BAND PASS FILTER	PACKAGE SIZE*	* INSERT LOSS (dB)	APPLICATION	FREQUENCY BAND
			5H5B = 5.7mm x 5.16mm	1J = 1.9dB	CM = Combo	BB:1160-1300

## RoHS

\* Where letters denote decimal location (A=.0, B=.1, C=.2, etc.); e.g. B5=0.15, 3A5=3.05, 9A=9.0

Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency	MHz	1160		1300	
Insertion Loss @ 25°C	dB			1.9	
Return Loss	dB	12.0			
Impedance	Ω		50		
Power Capacity	W			3	
Operating Temperature Range	°C	-40		85	
Storage Temperature Range	°C	-40		85	
Attenuation @ DC~960MHz	dB	30			
Attenuation @ 1500~1700MHz	dB	20			
Attenuation @ 1700~1950MHz	dB	40			
Group Delay @ 1166~1186MHz	dB		5.0		
Group Delay @ 1198~1215MHz	dB		5.0		
Group Delay @ 1217~1237MHz	dB		5.0		
Group Delay @ 1242~1248MHz	dB		5.0		

#### Outline Drawing



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Specifications are subject to change without notice.

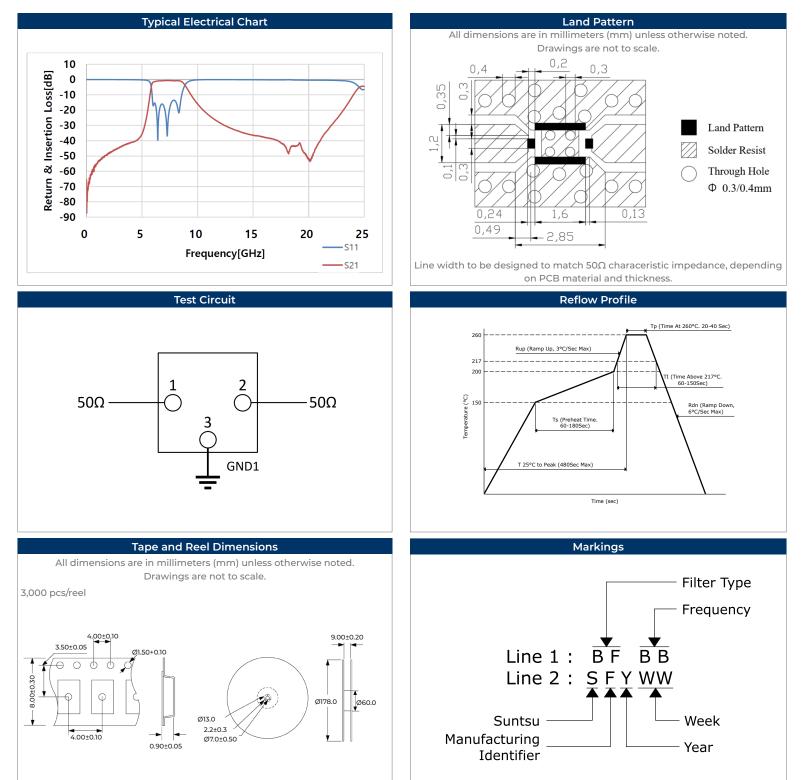
Suntsu Electronics, Inc. 142 TECHNOLOGY DR., SUITE 150 IRVINE, CA 92618

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Reliability Test					
Test Item	Test Conditions/Test Method	Specification			
Solderability JIS C 0050-4.6 JESD22-B1D	*Solder bath temperature : 235±5°C *Immersion time : 2±0.5 sec Solder : Sn <sup>3</sup> Ag 0.5Cu for lead-free	At least 95% of a surface of each terminal electrode must be covered by fresh solder.			
Leaching (Resistance to dissolution of metallization) IEC 60068-2-58	*Solder bath temperature : 260±5°C *Leaching immersion time : 30±0.5 sec Solder : SN63A	Loss of metallization on the edges of each electrode shall not exceed 25%			
Resistance to soldering heat JIS C 0050-5.4	*Preheating temperature : 120~150°C, 1 minute *Solder temperature : 270±5°C *Immersion time : 10±1 sec Solder : Sn3Ag 0.5Cu for lead-free Measurement to be made after keeping at room temperature for 24±2 hrs.	No mechanical damage. Eletrical specification shall satisfy the descriptions in electrical characteristics under the operational temperature ranger within -40~85°C. Loss of metallization on the edges of each electrode shall not exceed 25%			
Drop Test JIS C 0044	*Height : 75 cm *Test surface : Rigid surface of concrete or steel. *Times : 6 surfaces for each unit; 2 times each side.	No mechanical damage. Electrical specification shall satisfy the description in electrical characteristics under the operational temperature range within -40~85°C.			
Vibration JIS C 0040	*Frequency : 10Hz~55Hz~10Hz (1 min) *Total amplitude : 1.5mm *Test times : 6hrs (two hrs each in three mutually perpendicular directions)	No mechanical damage. Eletrical specification shall satisfy the descriptions in electrical characteristics under the operational temperature range within -40~85°C.			
Adhesive Strength of Termination JIS C 0051-7.4.3	*Pressurizing force : 5N(≤603) ; 10N(>0603) *Test time : 10±1 sec	No remarkable damage or removal of the termination			
Bending Test JIS C 0051-7.4.1	The middle part of substrate shall be pressurized by means of the pressurizing rod at a rate of about 1mm/s per second until the deflection becomes 1mm/s and then pressure shall be maintained for 5±1 sec. Measurement to be made after keeping at room temperature for 24±2 hours.	No mechanical damage. Eletrical specification shall satisfy the descriptions in electrical characteristics under the operational temperature range within -40~85°C.			
Temperature Cycle JIS C 0025	<ol> <li>30±3 minutes at -40°C±3°C</li> <li>10~15 minutes at room temperature</li> <li>30±3 minutes at 85°C±3°C</li> <li>10~15 minutes at room temperaure</li> <li>Total 100 continuous cycles</li> <li>Measurement to be made after keeping at room temperature for 24±2 hous.</li> </ol>	No mechanical damage. Eletrical specification shall satisfy the descriptions in electrical characteristics under the operational temperature range within -40~85°C.			
High Temperature JIS C 0021	*Temperature : 85°C±2°C *Test duration : 1000+24/-0 hours Measurement to be made after keeping at room temperature for 24±2 hours.	No mechanical damage. Eletrical specification shall satisfy the descriptions in electrical characteristics under the operational temperature range within -40~85°C.			
Humidity (steady conditions) JIS C 0022	*Humidity : 90% to 95% Relative Humidity *Temperature : 40°C±2°C *Time : 1000+24/-0 hours Measurement to be made after keeping at room temperature for 24±2 hours. **500hrs measuring the first data then 1000hrs data	No mechanical damage. Eletrical specification shall satisfy the descriptions in electrical characteristics under the operational temperature range within -40~85°C.			
Low Temperature JIS C 0020	*Temperature : -40°C±2°C *Test duration : 1000+24/-0 hours Measurement to be made after keeping at room temperature for 24±2 hours.	No mechanical damage. Eletrical specification shall satisfy the descriptions in electrical characteristics under the operational temperature range within -40~85°C.			

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