

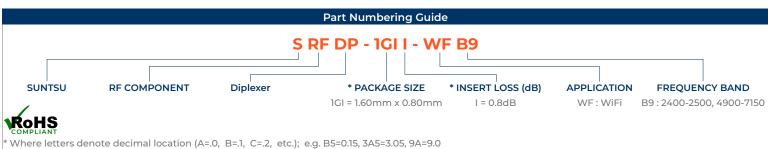
## **Features**

- Miniature Footprint
- Low Insertion Loss
- High Attenuation on 2nd Harmonic Suppressed
- LTCC Process

## **Applications**

- 2400~2500/4900~7150MHz Working Frequency
- WiFi Network

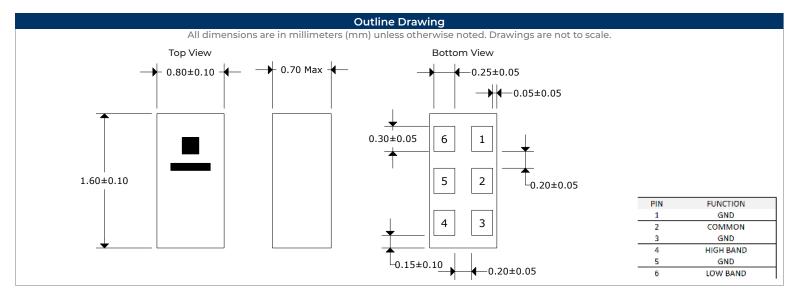


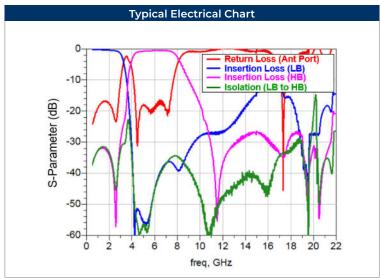


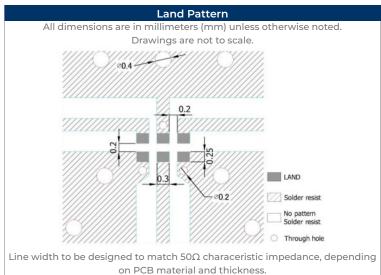
Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency	MHz	2400		2500	
Insertion Loss @ 25°C	dB		0.6	0.8	
Insertion Loss @ -40°~85°C	dB			1.0	
Attenuation @ 4800~5000MHz	dB	45	50		
Attenuation @ 7200~7500MHz	dB	20	30		
Frequency	MHz	4900		5100	
Insertion Loss @ 25°C	dB		1.0	1.3	
Insertion Loss @ -40°~85°C	dB			1.5	
Attenuation @ 2400~2500MHz	dB	40	50		
Attenuation @ 10300~14300MHz	dB	22	25		
Attenuation @ 15300~21450MHz	dB	15	20		
Frequency	MHz	5150		7150	
Insertion Loss @ 25°C	dB		0.85	1.0	
Insertion Loss @ -40°~85°C	dB			1.2	
Attenuation @ 2400~2500MHz	dB	40	50		
Attenuation @ 10300~14300MHz	dB	22	25		
Attenuation @ 15300~21450MHz	dB	15	20		
VSWR				2.0	
Impedance	Ω		50		
Power Capacity	W			3	
Operating Temperature Range	°C	-40		85	
Storage Temperature Range	°C	-40		85	
Isolation @ 2400~2500MHz	dB	40	50		
Isolation @ 4800~5000MHz	dB	40	50		
Isolation @ 5000~6000MHz	dB	40	45		
Isolation @ 6000~7150MHz	dB	30	35		

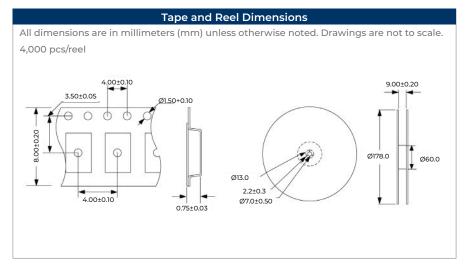
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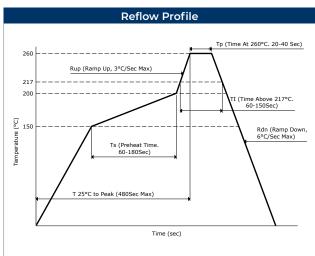














	Reliability Test	
Test Item	Test Conditions/Test Method	Specification
Solderability JIS C 0050-4.6 JESD22-B102D	*Solder bath temperature : 235±5°C *Immersion time : 2±0.5 sec Solder : Sn3Ag0.5Cu for lead-free	At least 95% of a surface of each terminal electrode must be covered by fresh solder.
Leaching (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	1. 30±3 minutes at -40°C±3°C 2. 10~15 minutes at room temperature 3. 30±3 minutes at 85°C±3°C 4. 10~15 minutes at room temperaure Total 100 continuous cycles Measurement to be made after keeping at room temperature for 24±2 hous.	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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