

# APPROVAL SHEET

SHENZHEN PUWEI TECHNOLOGY CO.,LTD.

PURE-V  
TECH



**Product Description: SAW Filter 1584 MHz SMD 3.0×3.0mm (BW=48.0MHz)**

Part No.	PV5G83
Pages	7
Date	2022/04/12
Revision	2.0

Prepared by:	
Checked by:	张勃
Approved by:	



# History Record

Date	Part No.	Version No.	Modify Content	Remark
2022.04.12	PV5G83	2.0	指标、频谱图更新	

## Application

- Low-loss SAW component
- Low amplitude ripple
- Sharp rejections at both out-bands
- Usable passband 48.0 MHz

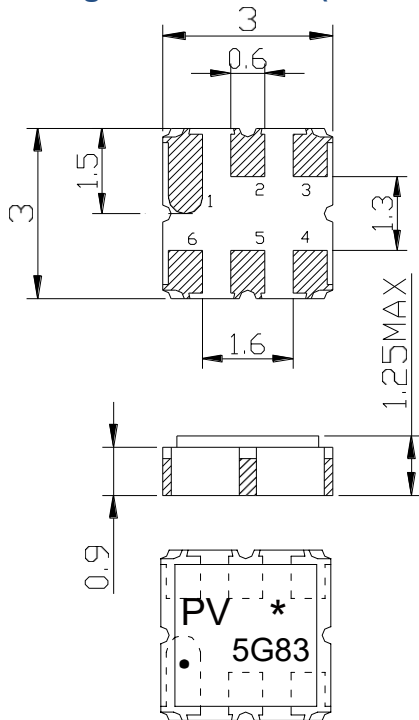
## Features

- RoHS compatible
- Package size 3.00x3.00x1.25mm<sup>3</sup>
- Package Code DCC6C
- Electrostatic Sensitive Device(ESD)

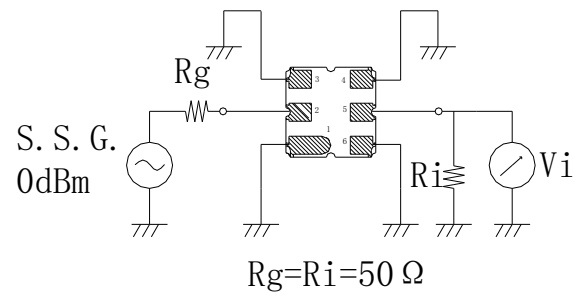
## Maximum Rating

Item		Value	Unit
DC Voltage	V <sub>DC</sub>	3	V
Operation Temperature	T	-40 ~ +85	°C
Storage Temperature	T <sub>stg</sub>	-40 ~ +85	°C
RF Power Dissipation	P	10	dBm

## Package Dimensions (Unit: mm)



## Test Circuit (Bottom View)



## Pin Configuration

2	Input
5	Output
1, 3, 4, 6	Ground

- Top View, Laser Marking

- "PV": Manufacturer's mark    "5G83": Part number    ".": Terminal 1
- "\*": Lot number (The code shown below varies in a 4-year cycle)

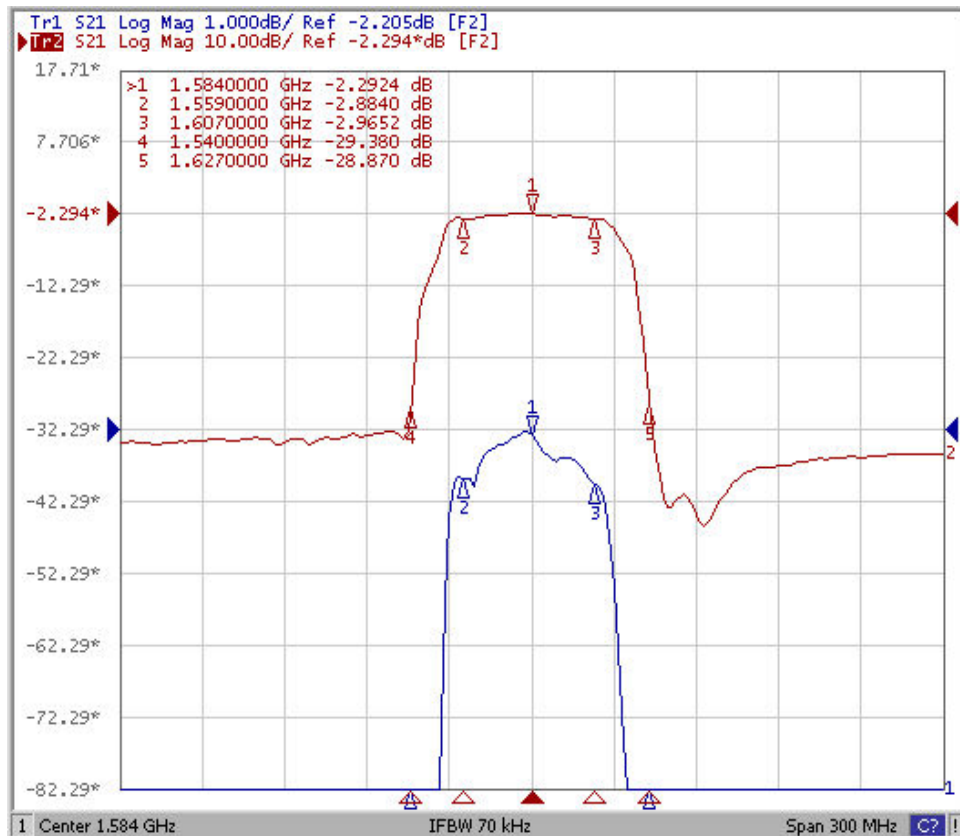
Code	1	2	3	4	5	6	7	8	9	10	11	12
2021	a	b	c	d	e	f	g	h	i	j	k	m
2022	n	p	q	r	s	t	u	v	w	x	y	z
2023	A	B	C	D	E	F	G	H	J	K	L	M
2024	N	P	Q	R	S	T	U	V	W	X	Y	Z

Electronic Characteristics Test Temperature: 25°C ± 2°C

Terminating source impedance: 50 Ω

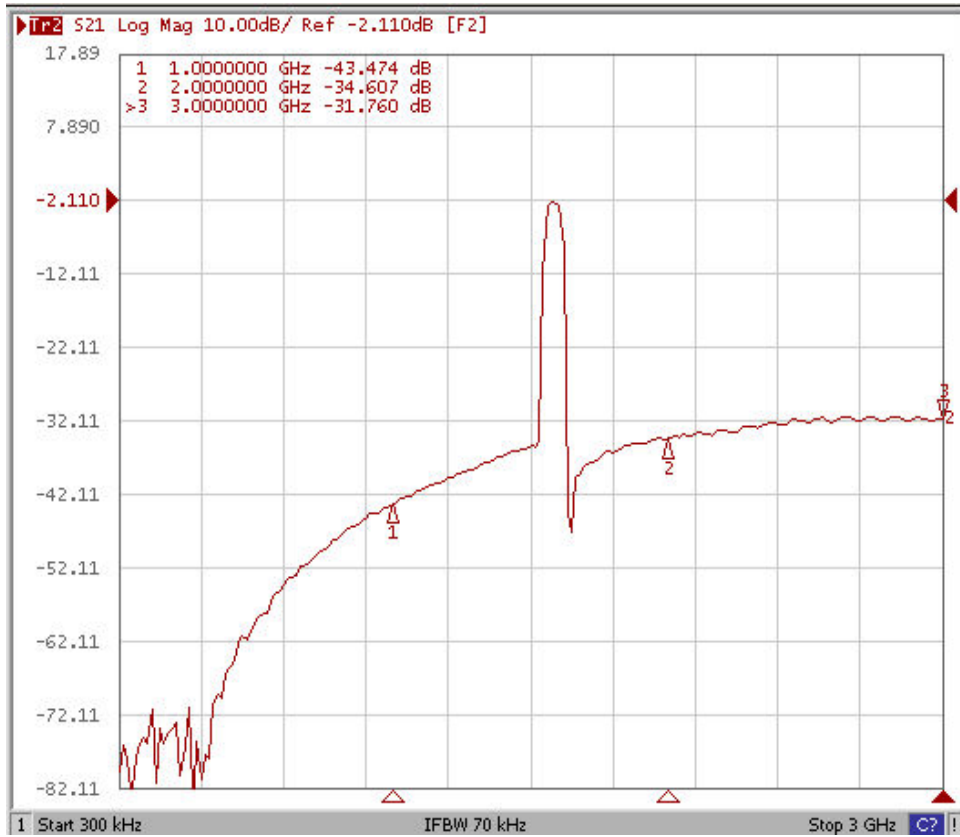
Item		Minimum	Typical	Maximum	Unit
Center Frequency	fc		1584.00		MHz
Insertion Loss(min)	IL		2.0	2.5	dB
Insertion Loss	IL		2.8	3.8	dB
Amplitude Ripple (p-p)	$\Delta a$		0.9	1.5	dB
Absolute Attenuation	$a$				
	DC - 1000.00 MHz	40.0	42.0		dB
	1540.00 MHz	23.0	28.0		dB
	1627.00 MHz	20.0	25.0		dB
	2000.00 - 3000.00 MHz	28.0	30.0		dB
Input VSWR	1559.00 - 1607.00 MHz		1.6:1	2.0:1	/
Output VSWR	1559.00 - 1607.00 MHz		1.6:1	2.0:1	/

### Frequency Characteristics

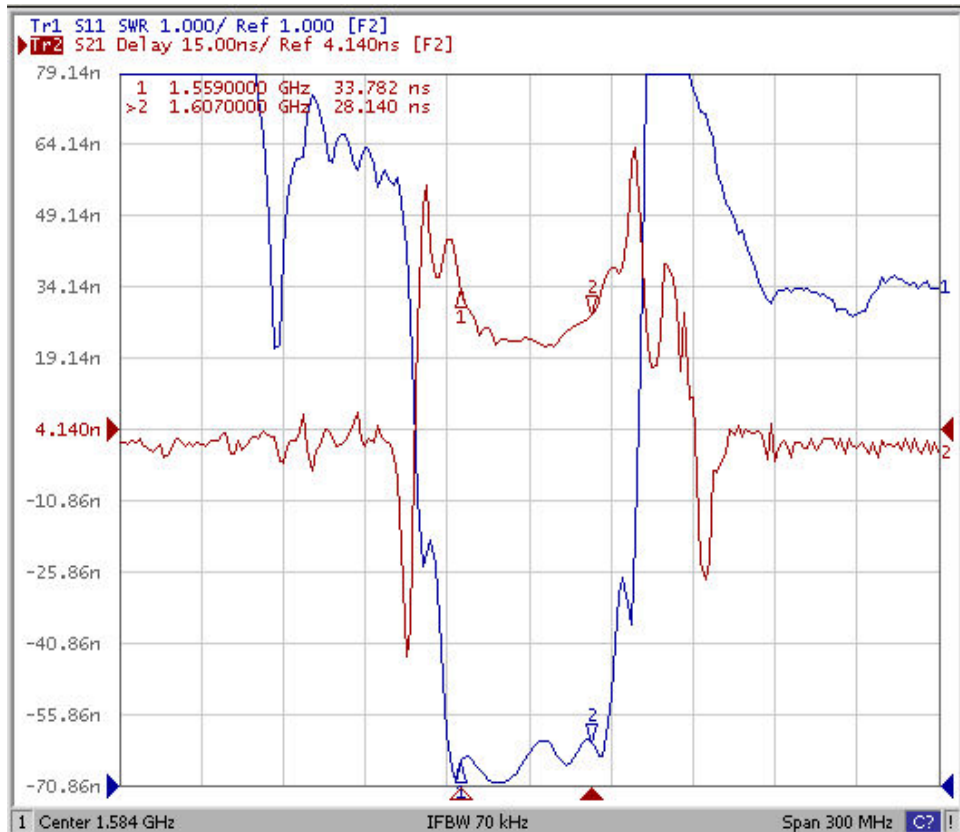


Frequency Characteristics

Frequency Response (wideband)



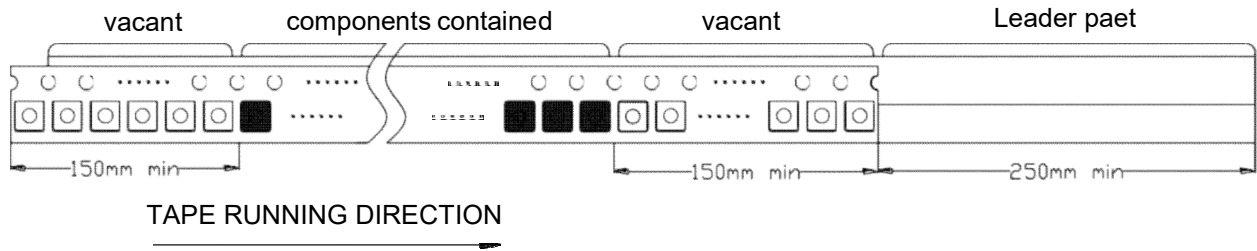
Delay Ripple & S11 VSWR





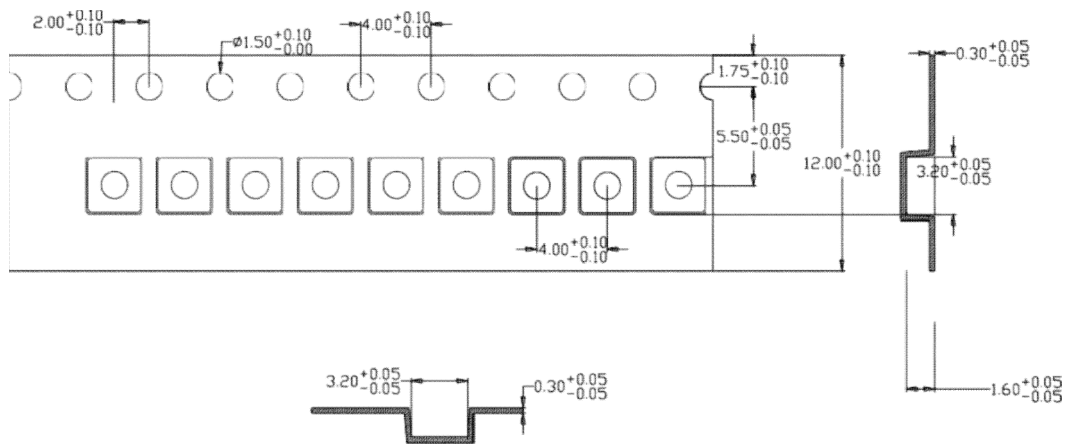
## Packing Information

### Carrier Tape



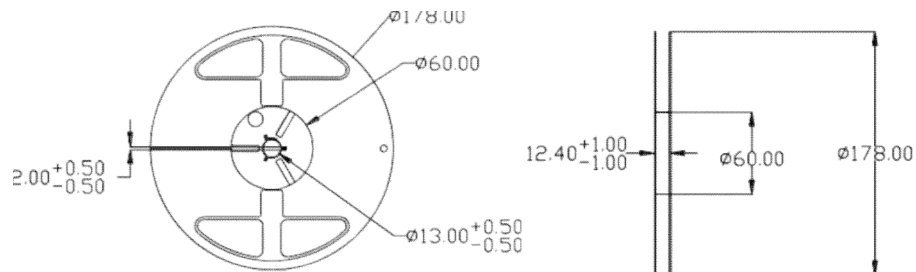
### Reel Dimensions

Unit: mm



### Outer Packing

Unit: mm



## Notes

1. As a result of the particularity of inner structure of SAW products, it is easy to be broken down by electrostatic, so we should pay attention to **ESD protect** in the test.
2. **Static voltage** between signal load and ground may cause deterioration and destruction of the component. Please avoid static voltage.
3. **Ultrasonic cleaning** may cause deterioration and destruction of the component. Please avoid ultrasonic cleaning.
4. Only leads of component may **be soldered**. Please avoid soldering another part of component.
5. There is a close relationship between the device's performance and **matching network**. The specifications of this device are based on the test circuit shown above. L and C values may change depending on board layout. Values shown are intended as a guide only.