

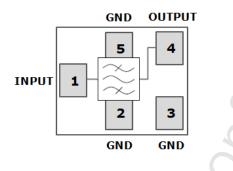
Description

RSFP2313E is a high-performance, miniature filter designed for mobile equipment with LTE B40 band. It is designed with Film Bulk Acoustic Resonator (FBAR) technology, which can provide low insertion loss and steep skirt. So that this product enables coexistence of Wi-Fi signals within the same device or in close proximity to one another.

For general performance, the RSFP2313E typical insertion loss in the pass band is less than 1.0dB, and max insertion loss is within 2.0dB over -20~+85°C, while the typical rejection at the Wi-Fi and LTE41 band are more than 35dB.

For the chip package, the RSFP2313E uses advanced module packing techniques to achieve the industry standard 1.1x0.9x0.6mm footprint, include bumping and flip chip.

Functional Block Diagram



Pin Connection

No.	Function		
1	Input		
4	Output		
2,3,5	Ground		

Features

- For Wi-Fi LTE coexistence application
- Plastic Chip Scale Package(CSP)
- Miniature Size: 1.1mm x 0.9 mm x 0.6 mm
- High Rejection at Wi-Fi and LTE B41 bands.
- Low Temperature Coefficient of Frequency
- Storage temperature range: -40 to +150 °C
- Excellent ESD protection ability: Class 1C
- Moisture Sensitivity : MSL3

Environmental

- Full implement with RoHS compliant
- Lead Free (Pb free)



@ROFS Microsystem All Right Reserved Data sheet, Oct 2020

1/6



Electrical Specifications

Parameter(Operable Temperature:-20 to +85°C)		Typ (1)	Max(2)	Unit
Insertion Loss (2300 ~ 2400 MHz)	١	0.9	2.0	dB
Ripple (2300 ~ 2400 MHz)		0.4	1.0	dB
VSWR Input (2300 ~ 2400 MHz)		1.2	1.5	
VSWR Output (2300 ~ 2400 MHz)		1.2	1.5	
Absolute Attenuation		5		
10 ~ 1574 MHz	-23	-35	١	dB
1574 ~ 1577 MHz	-23	-25	١	dB
1577 ~ 1680 MHz	-22	-25	١	dB
1845 ~ 1880 MHz	-22	-24	١	dB
2110 ~ 2170 MHz	-26	-30	١	dB
2421 ~ 2443 MHz (ch05,18MHz-BW)	-25	-55	١	dB
2421 ~ 2443 MHz (ch05,18MHz-BW,+25~+85°C)	-40	-60	١	dB
2426 ~ 2448 MHz (ch06,18MHz-BW)	-55	-60	١	dB
2431 ~ 2483 MHz (ch07-13,18MHz-BW)		-50	١	dB
4600 ~ 4800 MHz	-45	-48	١	dB
6900 ~ 7200 MHz	-31	-32	١	dB
RF Input Power(3)(2300 ~ 2400 MHz)		30		dBm

(1) **Typ Data** is the integrated value of the linear S-parameter over indicated band at +25°C.

(2) **Min/Max Data** is being specified over -20 to +85°C.

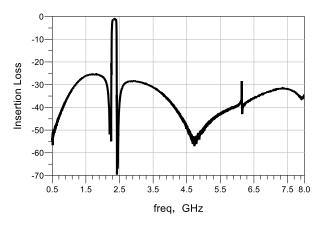
(3) **Input power** applied for a minimum of 5,000 hrs at 55°C in the specified frequency band.



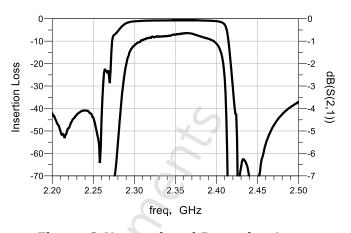
VSWR1

RSFP2313E LTE Band 40 Filter (2300~2400MHz)

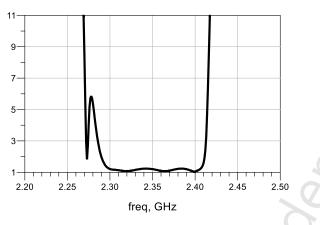
Typical Performance at Tc=25°C



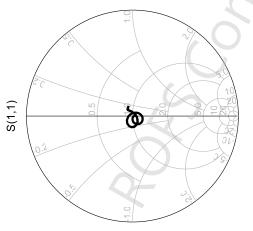






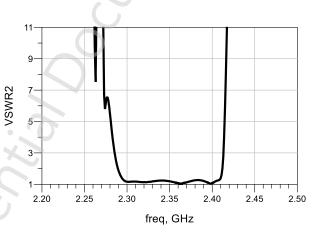




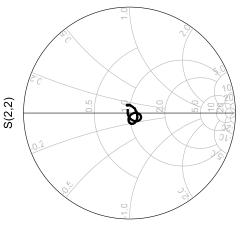


freq (2.300GHz to 2.400GHz)









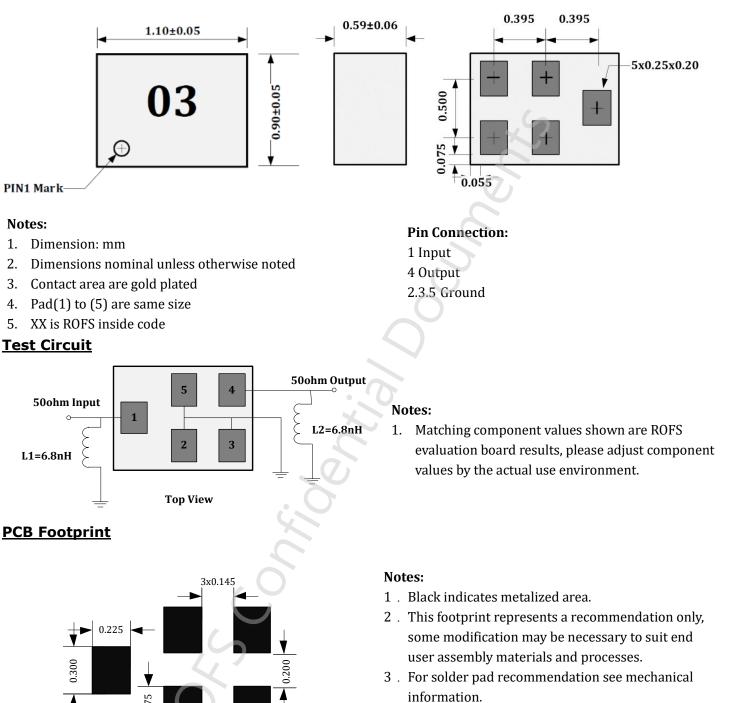
freq (2.300GHz to 2.400GHz)

Figure.6 Output Smith Chart S22



RSFP2313E LTE Band 40 Filter (2300~2400MHz)

Package Outline Drawing



4 . Dimensions shown are nominal in millimeters.

Packing

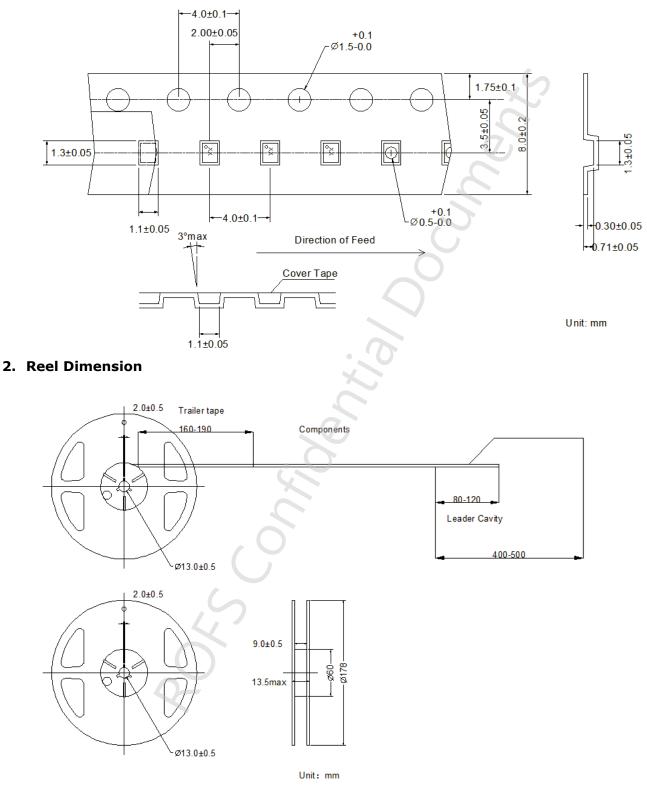
@ROFS Microsystem All Right Reserved Data sheet, Oct 2020

0.250



RSFP2313E LTE Band 40 Filter (2300~2400MHz)

1. Tape Dimension



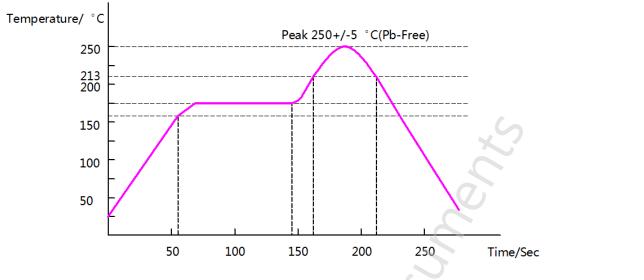
5000Pcs/Reel

Recommended IR Reflow Profile

@ROFS Microsystem All Right Reserved Data sheet, Oct 2020

www.rofsmicro.com





Order Information

Part Number	Qty Per Reel	Container
RSFP2313E	5000	7 inch Reel

For more information, please contact: sales@rofsmicro.com

Notes:

The specification may be changed or the product had been discontinued, please check with our sales or product engineer before order.