

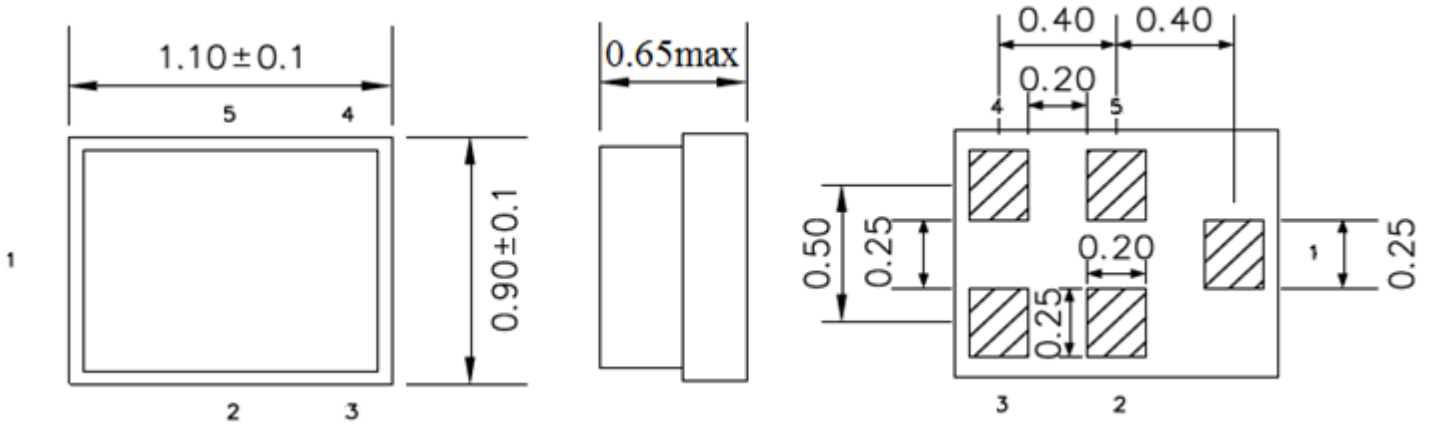
**RSF-2140.000-60000-1109-TR-NS6**

- ❖ Low-Loss RF Filter for Mobile Telephone WCDMA Band I systems, receive Path (Rx).
- ❖ Impedance Transform 50  $\Omega$  to 100  $\Omega$ .
- ❖ Unbalanced to Balanced Operation.
- ❖ Useable Pass Band 60 MHz.
- ❖ RoHS Compatible.

**Electrical Specification**

Parameters		Value	Unit
Insertion Loss, typ/max	2110 ~ 2170 MHz	1.7 / 2.5	dB
Amplitude Ripple, typ/max	2110 ~ 2170 MHz	0.6 / 1.6	dB
VSWR, typ/max	Input	2110 ~ 2170 MHz	1.8 / 2.2
	Output		1.7 / 2.2
Output Amplitude Balance, typ/max	2110 ~ 2170 MHz	$\pm 0.7 / \pm 1.0$	dB
Output Phase Balance, typ/max	2110 ~ 2170 MHz	$180 \pm 3 / 180 \pm 10$	$^{\circ}$
Attenuation, min/typ	DC ~ 1730 MHz	-35 / -40	dB
	1730 ~ 1790 MHz	-38 / -45	dB
	1920 ~ 1980 MHz	-43 / -48	dB
	1980 ~ 2025 MHz	-32 / -42	dB
	2025 ~ 2050 MHz	-20 / -33	dB
	2250 ~ 2400 MHz	-20 / -24	dB
	2400 ~ 2500 MHz	-25 / -34	dB
	2500 ~ 3000 MHz	-20 / -33	dB
	3000 ~ 4030 MHz	-22 / -50	dB
	4030 ~ 4150 MHz	-25 / -50	dB
4150 ~ 5950 MHz	-20 / -48	dB	
5950 ~ 6000 MHz	-20 / -50	dB	
DC Voltage		5	V
Input Power, max	@ 2000 h	15	dBm
ESD Voltage ESD (MM)		50	VDC
Sensitive Discharge Voltage ESD(HBM)		175	VDC
Terminating Source Impedance, unbalanced		50	$\Omega$
Terminating Load Impedance, balanced		100 // 12	$\Omega$ // nH
Operating Temperature Range		-30 ~ +85	$^{\circ}\text{C}$
Storage Temperature Range		-40 ~ +85	$^{\circ}\text{C}$

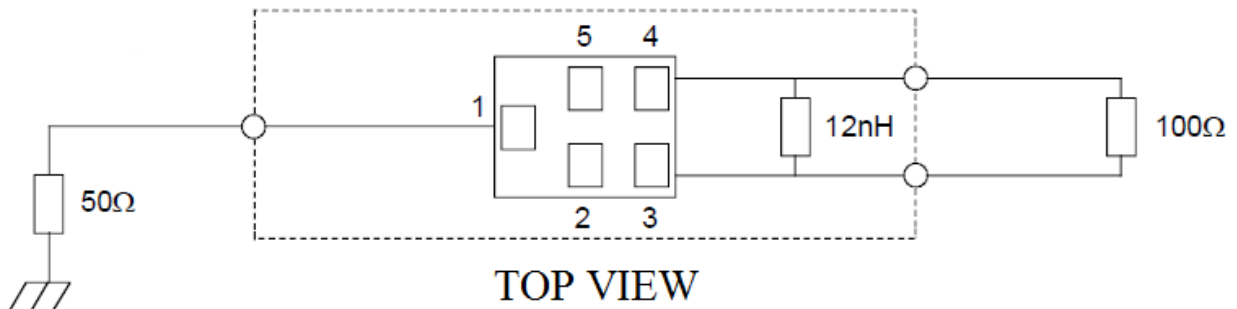
#### Dimensions



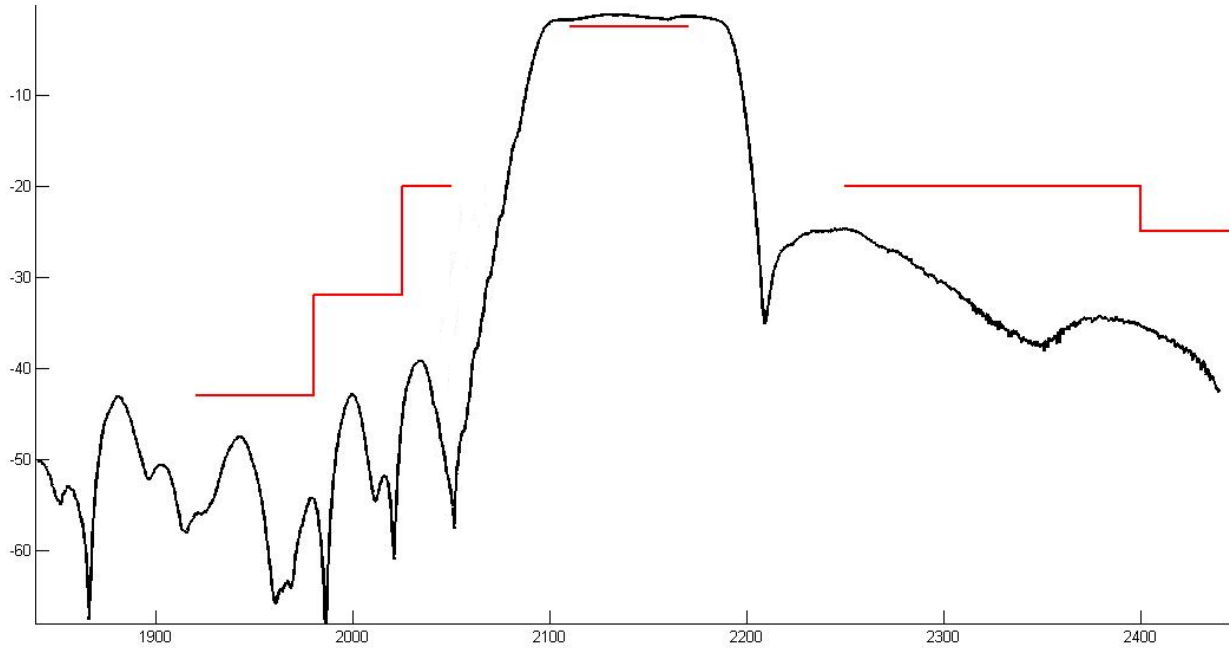
Unit: mm

PIN #	PIN NAME	DESCRIPTION
1	IN	Input
2	GND	Ground
3	OUT	Balanced Output
4	OUT	Balanced Output
5	GND	Ground

#### Test Circuit



**Frequency Characteristics**



**Environmental**

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	2
REACH – SVHC	Compliant
RoHS	Compliant

**APPROVAL**

DRAWN BY	AR, August 19, 2021
APPROVED BY	CP, August 19, 2021
REVISION	A, Initial Release

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