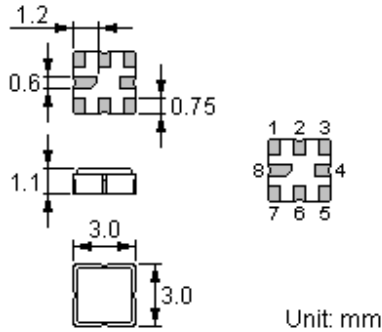


The NDF9108 is a RF low-loss filter for GPS applications.

1. Package Dimensions (QCC8D)



Pin configuration

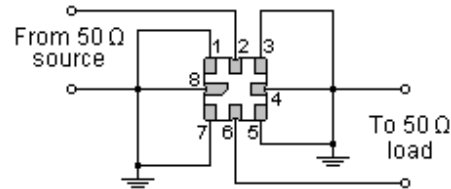
2	Input
6	Output
1, 3, 5, 7	To be grounded
4, 8	Case - ground

2. Marking

**NDF
9108**

Laser Marking

3. Test Circuit



4. Typical Frequency Response



5. Performance

5-1. Maximum Ratings

Rating		Value	Unit
Source Level	P_S	10 max	dBm
DC Voltage	V_{DC}	0	V
Operable Temperature Range	T_A	-40 to +105	°C
Storage Temperature Range	T_{stg}	-40 to +105	°C

5-2. Electronic Characteristics

Characteristic		Min.	Typ.	Max.	Unit
Center Frequency	f_C		1575.420		MHz
Insertion Loss	IL	--	1.6	3.5	dB
1574.220 1576.620 MHz					
Amplitude Ripple (p-p)		--	0.3	1.5	dB
1574.220 1576.620 MHz					
Absolute Attenuation	α				
1475.42 MHz		40	50	--	dB
1535.42 MHz		18	22	--	dB
1615.42 MHz		50	60	--	dB
1675.42 MHz		40	50	--	dB
Group Delay	τ		25	30	ns
1574.220 1576.620 MHz					
Group Delay Ripple (p-p)	$\Delta \tau$		2.0	5.0	ns
1574.220 1576.620 MHz					
VSWR				2.0	dB
1574.220 1576.620 MHz					
Input / Output Impedance		50			Ω

ⓘ CAUTION: Electrostatic Sensitive Device. Observe precautions for handling!

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1. The frequency f_C is defined as the midpoint between the 3dB frequencies.
2. The specifications of this device are subject to change or obsolescence without notice.
3. All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.
4. Our liability is only assumed for the Surface Acoustic Wave (SAW) component(s) per se, not for applications, processes and circuits implemented within components or assemblies.
5. For questions on technology, prices and delivery, please contact our sales offices or e-mail winnsky@winnsky.com