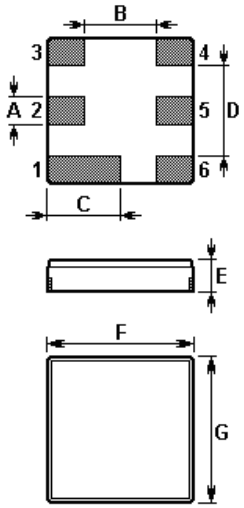
The **NDF9038** is a low-loss, wide band SAW filter in a surface-mount ceramic **DCC6C** case for GSM Rx etc.

1. Package Dimension (DCC6C)



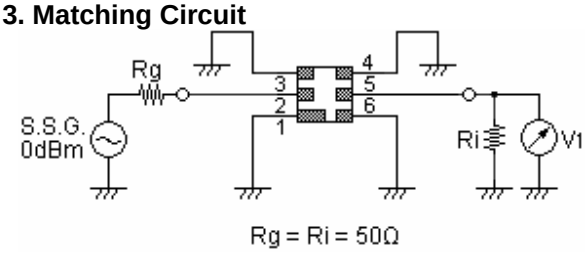
Pin	Configuration
2	Input
5	Output
1, 3, 4, 6	Ground

Sign	Data (unit: mm)	Sign	Data (unit: mm)
A	0.6	E	1.1
B	1.5	F	3.0
C	1.5	G	3.0
D	1.8		

2. Marking

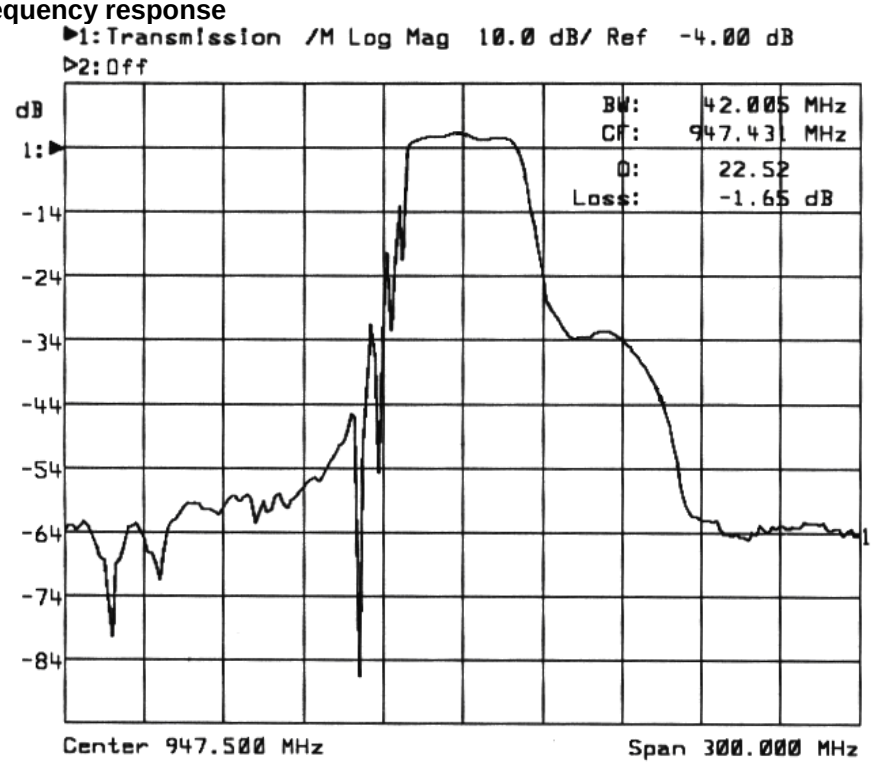
Laser Marking

3. Matching Circuit



Rg = Ri = 50Ω

4. Typical frequency response



5. Performance

5-1.Maximum Ratings

Rating		Value	Unit
Input Power Level	P_{IN}	10	dBm
DC Voltage	V_{DC}	12	V
Storage Temperature Range	T_{stg}	-40 to +85	℃
Operating Temperature Range	T_A	-10 to +65	℃

5-2.Electronic Characteristics

Parameter		Minimum	Typical	Maximum	Unit
Center Frequency	f_C	--	947.500	--	MHz
3dB Bandwidth	BW_3	--	±21	--	MHz
Usable Bandwidth	BW_{USE}	--	±15	--	MHz
Insertion Loss 932.50 MHz …. 962.50 MHz	*IL*	-- --	2.7 1.8	3.6 --	dB dB
Amplitude Variation (p-p) 932.50 MHz …. 962.50 MHz	*Δ α*	-- --	1.0 0.5	1.8 --	dB dB
Absolute Attenuation DC …. 885.00 MHz 885.00 MHz …. 915.00 MHz 990.00 MHz …. 1050.0 MHz 1050.0 MHz …. 2000.0 MHz	*α*	 45 18 20 48	 54 25 28 58	 -- -- -- --	dB
Input / Output Impedance			50		Ω

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

1. The frequency f_C is defined as the midpoint between the 3dB frequencies.
2. Unless noted otherwise, all measurements are made with the filter installed in the specified test fixture that is connected to a 50Ω test system with VSWR≤1.2:1. The test fixture L and C are adjusted for minimum insertion loss at the filter center frequency, f_C. Note that insertion loss, bandwidth, and passband shape are dependent on the impedance matching component values and quality.
3. Unless noted otherwise, specifications apply over the entire specified operating temperature range.
4. The specifications of this device are based on the test circuit shown above and subject to change or obsolescence without notice.
5. All equipment designs utilizing this product must be approved by the appropriate government agency prior to manufacture or sale.
6. 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.
7. For questions on technology, prices and delivery, please contact our sales offices or e-mail winnsky@winnsky.com