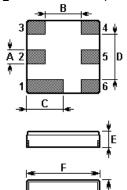


SAW FILTER

Part Number: VTF15751

The VTF15751 is a low-loss, compact, and economical surface-acoustic-wave (SAW) RF filter in a surface-mount ceramic **DCC6C** case designed for GPS applications.

1. Package Dimensions (DCC6C)



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

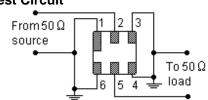
Sign	Data (unit: mm)	Sign Data (unit: mm)		
Α	0.6	Е	1.1	
В	1.5	F	3.0	
С	1.5	G	3.0	
D	1.8			

2. Marking

VTF 15751

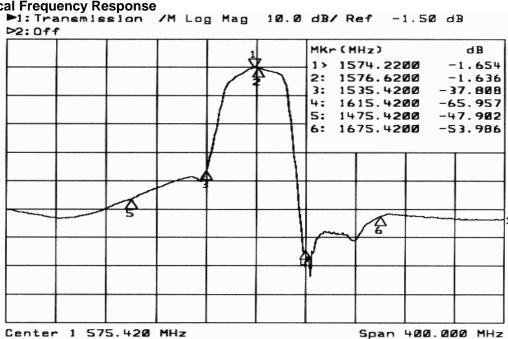
G

3. Test Circuit



Laser Marking

4. Typical Frequency Response



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5. Performance

5-1. Maximum Ratings

Rating	Value	Unit	
Input Power Level	Р	10	dBm
DC Voltage	V_{DC}	0	V
Operable Temperature Range	T _A	-10 to +65	$^{\circ}$
Storage Temperature Range	$T_{ m stg}$	-40 to +85	$^{\circ}$

5-2. Electronic Characteristics

Characteristic		Min.	Тур.	Max.	Unit
Center Frequency	f _C		1575.420		MHz
Insertion Loss 1574.220 1576.620 MHz	IL		1.6	3.5	dB
Amplitude Ripple (p-p) 1574.220 1576.620 MHz			0.3	1.5	dB
Absolute Attenuation 1475.42 MHz 1535.42 MHz 1615.42 MHz 1675.42 MHz	α	38 30 50 45	45 38 66 54	1 1	dB
Group Delay 1574.220 1576.620 MHz	τ		25	30	ns
Group Delay Ripple (p-p) 1574.220 1576.620 MHz	Δτ		2.0	5.0	ns
VSWR 1574.220 1576.620 MHz				2.0	dB
Input / Output Impedance			50		Ω

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

- 1. The frequency $f_{\mathbb{C}}$ is defined as the midpoint between the 3dB frequencies.
- 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.
- The specifications of this device are based on the test circuit shown above and subject to change or obsolescence without notice.
- 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 info@v-torch.com

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