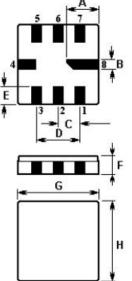


SAW FILTER

Part Number : VTF240155

The VTF240155 is a low-loss, compact, and economical surface-acoustic-wave (SAW) filter in a surface-mount ceramic QCC8C case for broadband applications.

1. Package Dimensions (QCC8C)



Pins	Configuration
2	Input Ground
3	Input
6	Output Ground
7	Output
1,5	To be Grounded
4,8	Case Ground

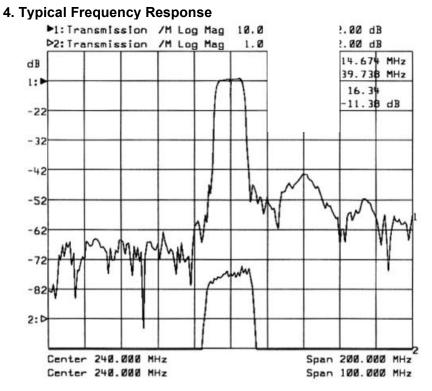
Sign Data (unit: mm)		Sign	Data (unit: mm)	
А	2.08	E	1.20	
В	0.60	F	1.35	
С	1.27	G	5.00	
D	2.54	н	5.00	

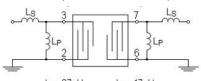
3. Test Circuit (50Ω unbalance)

2. Marking

VTF 240155

Laser Marking









5. Performance

5-1. Maximum Ratings

Rating	Value	Unit	
Input Power Level	Р	10	dBm
DC Voltage	V _{DC}	0	V
Operable Temperature Range	TA	-10 to +60	°C
Storage Temperature Range	T _{stg}	-40 to +85	°C

5-2. Electronic Characteristics

Parameter		Minimum	Typical	Maximum	Unit
Center Frequency	f _C	-	240.000		MHz
Minimum Insertion Loss at 240.0 MHz	IL		11	14	dB
3dB Bandwidth	BW ₃	-	13	-	MHz
40dB Bandwidth	<i>BW</i> ₄₀		26		MHz
Relative Attenuation 200.00 226.00 MHz 255.00 280.00 MHz 280.00 300.00 MHz	a _{rel}	-	45 40 45	-	dB dB dB
Passband Ripple 236.15 243.85 MHz	Δα		0.7		dB
Phase Linearity 236.15 243.85 MHz			5	-	deg
Group Delay Variation 236.15 243.85 MHz	Δτ	-	35	-	ns
Temperature Coefficient of Frequency	TCf		-94		ppm/°C
Input / Output Impedance (Nominal)			50 Ω		
Substrate Material		YZ LiNbO ₃			

(i)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 info@vtorch.ca.