

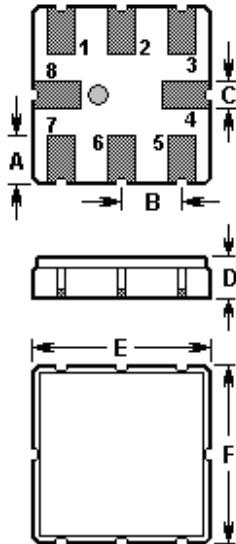
SAW FILTER

Part Number: VTF13036

The **VTF13036** is a low-loss, compact, and economical surface-acoustic-wave (SAW) filter in a surface-mount ceramic **QCC8B** case with 130.380 MHz center frequency used for mobile systems.

-----Preliminary

1. Package Dimension (QCC8B)



Pin	Configuration
3	Input / Output
7	Output / Input
1,2,5,6	To be grounded
4,8	Case Ground

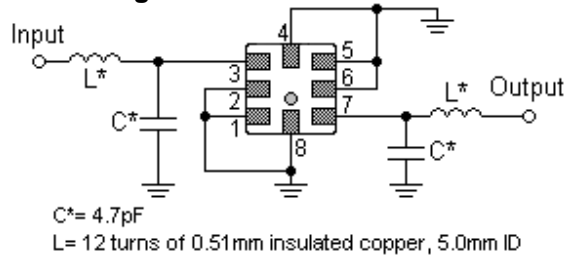
Sign	Data (unit: mm)	Sign	Data (unit: mm)
A	1.00	D	1.50
B	1.27	E	3.80
C	0.60	F	3.80

2. Marking

VTF
13036

Laser Marking

3. Matching Circuit



4. Performance

4-1. Maximum Ratings

Rating		Value	Unit
Input Power Level	P	10	dBm
DC Voltage	V_{DC}	0	V
Storage Temperature Range	T_{stg}	-40 to +85	°C
Operable Temperature Range	T_A	-20 to +60	°C

4-2.Electronic Characteristics

Characteristic		Min.	Typ.	Max.	Unit
Center Frequency	f_c		130.380		MHz
Insertion Loss	IL	--	--	5.5	dB
3dB Bandwidth	BW_3		1.30		MHz
Stop Band Attenuation (from minimum IL)	α				
135.33 MHz		40	--	--	dB
139.63 MHz ~ 140.93 MHz		45	--	--	
Group Delay Time Deviation					
$f_c \pm 650$ kHz		--	--	0.8	μ s
Input / Output Impedance		312 Ω // 1.61 μ H			

ⓘ 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 50 Ω test system with $VSWR \leq 1.2:1$. 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@v-torch.com