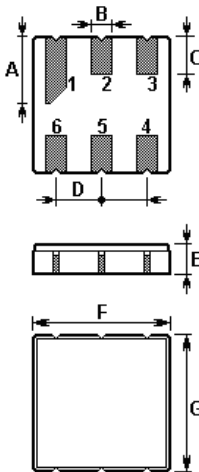


# SAW FILTER

## Part Number: VTF13032

The **VTF13032** is a low-loss, compact, and economical surface-acoustic-wave (SAW) filter in a surface-mount ceramic **DCC6** case with 130.380 MHz center frequency used for mobile systems.

### 1. Package Dimension (DCC6)



Pin	Connection
2	Input
5	Output
Others	Ground

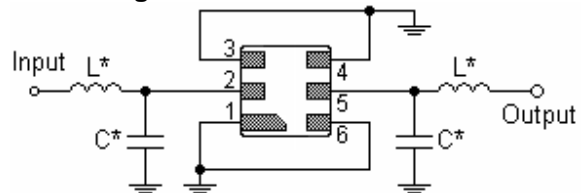
Sign	Data (unit: mm)	Sign	Data (unit: mm)
A	1.90±0.1	E	1.35±0.15
B	0.64±0.1 (x6)	F	3.80±0.15
C	1.00±0.1 (x5)	G	3.80±0.15
D	1.27±0.1 (x4)		

### 2. Marking

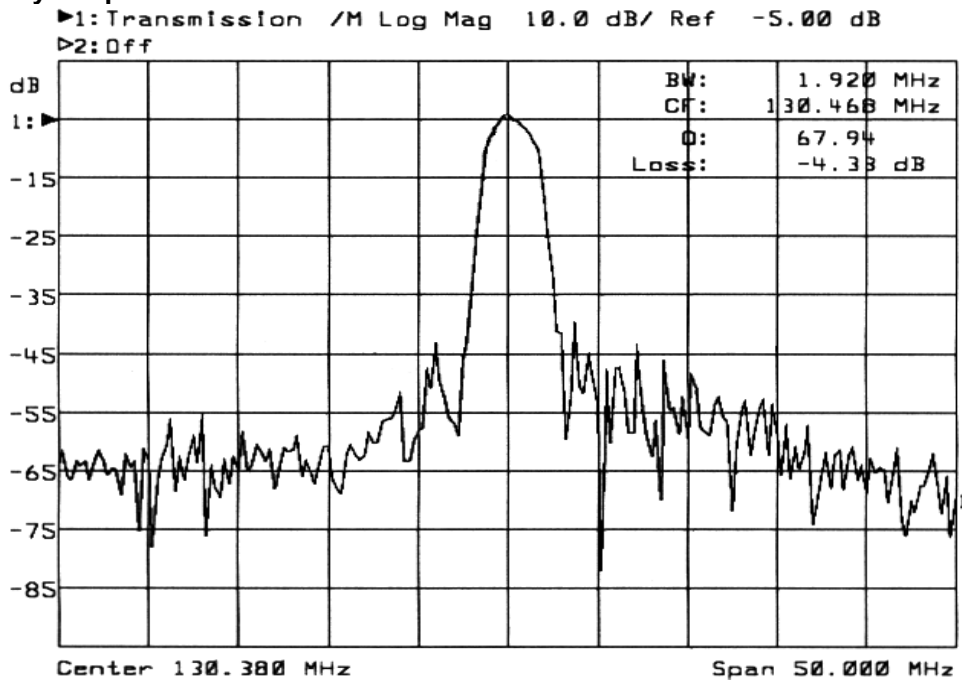
VTF  
13032

Laser Marking

### 3. Matching Circuit



### 4. Frequency Response



## 5. Performance

### 5-1.Maximum Ratings

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

### 5-2.Electronic Characteristics

Characteristic		Min.	Typ.	Max.	Unit
Center Frequency	$f_C$	--	130.380	--	MHz
Insertion Loss	$IL$	--	--	5.5	dB
2dB Bandwidth	$BW_2$	$\pm 500$	--	--	kHz
3dB Bandwidth	$BW_3$	$\pm 630$	--	--	kHz
Stop Band Attenuation (from $IL$ ) 135.33 MHz 139.65 MHz ~ 140.91 MHz	$\alpha$	40 45	-- --	-- --	dB
Group Delay Deviation $f_C \pm 630\text{kHz}$		--	--	0.8	$\mu\text{s}$
Input / Output Impedance		310 $\Omega$ // 1.6 $\mu\text{H}$			

**ⓘ 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 $\Omega$  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](mailto:info@v-torch.com)