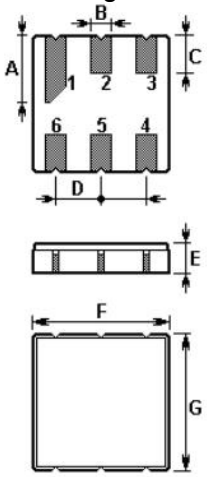
V.TORCH

SAW FILTER

Part Number ： VTF43342

The VTF43342 is a low-loss, compact, and economical surface-acoustic-wave (SAW) RF filter in a surface-mount ceramic DCC6 case designed to provide front-end selectivity in 433.420 MHz receivers.

1. Package Dimension (DCC6)



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

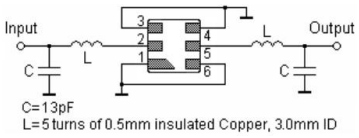
Sign	Data (unit: mm)	Sign	Data (unit: mm)
A	1.90±0.1	E	1.35±0.15
B	0.64±0.1 (x6)	F	3.80±0.15
C	1.00±0.1 (x5)	G	3.80±0.15
D	1.27±0.1 (x4)		

2. Marking

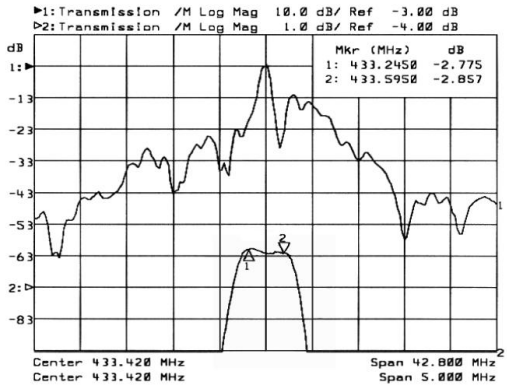
VTF
43342

Laser Marking

3. Test Circuit



4. Typical Frequency Response



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5. Performance

5-1. Maximum Ratings

Rating		Value	Unit
Input Power Level	Pin	10	dBm
DC Voltage	V_{DC}	12	V
Storage Temperature Range	T_{stg}	-40 to +85	℃
Operating Temperature Range	T_A	-10 to +60	℃

5-2. Electronic Characteristics

Characteristic			Minimum	Typical	Maximum	Unit
Center Frequency (center frequency between 3dB points)		f_C		433.420		MHz
Insertion Loss		*IL*	--	3.5	5.0	dB
3dB Pass band		BW_3	600	900	--	kHz
Rejection	at f_C -21.4MHz (Image)		36	45	--	dB
	at f_C -10.7MHz (LO)		20	25	--	
	Ultimate		--	60	--	
Temperature	Turnover Temperature	T_O	25		55	℃
	Turnover Frequency	f_O		f_C		MHz
	Frequency Temperature Coefficient	*FTC*		0.032		ppm/℃^{2}
Frequency Aging	Absolute Value during the First Year	|*fA*|		10		ppm/yr

ⓘ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