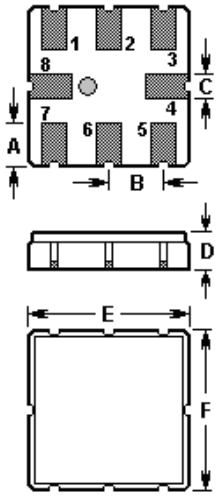
V.TORCH
Electronics Limited

SAW FILTER

Part Number：VTF34506

The **VTF34506** is a low-loss, compact, and economical surface-acoustic-wave (**SAW**) RF filter in a surface-mount ceramic **QCC8B** case for remote control receivers.

1. Package Dimension (QCC8B)



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

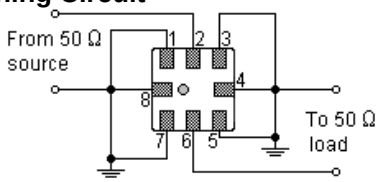
Sign	Data (unit: mm)	Sign	Data (unit: mm)
A	1.00	D	1.50
B	1.27	E	3.80
C	0.60	F	3.80

2. Marking

VTF
34506

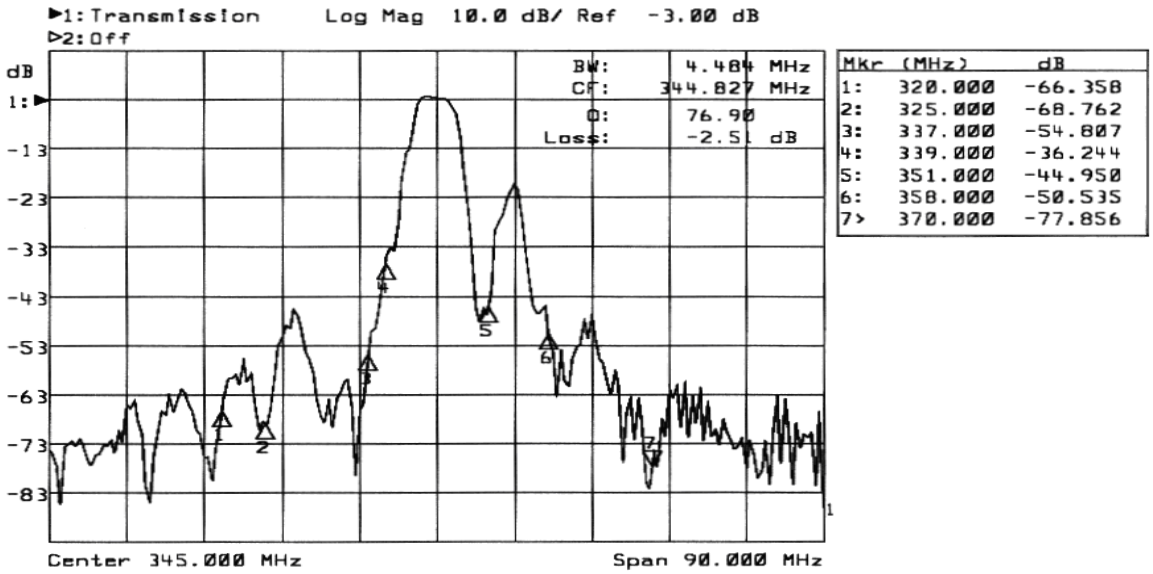
Laser Marking

3. Matching Circuit



No matching network required for operation at 50Ω

4. Typical Frequency Response



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5. Performance

5-1. Maximum Ratings

Rating		Value	Unit
Source Power	P_S	0	dBm
DC Voltage	V_{DC}	0	V
Operable Temperature Range	T_A	-10 to +60	℃
Storage Temperature Range	T_{stg}	-40 to +85	℃

5-2. Electronic Characteristics

Reference Temperature: T_A = 25℃
Terminating Impedance: Z_S = 50Ω, Z_L = 50Ω

Characteristic		Min.	Typ.	Max.	Unit
Center Frequency	f_C		345.00		MHz
Insertion Loss 344.60 …. 345.40 MHz	*IL*	--	2.5	4.0	dB
Amplitude Ripple (p-p) 344.60 …. 345.40 MHz	*Δα*	--	0.5	1.5	dB
Relative Attenuation (relative to *IL*)	α_{rel}				
10.00 …. 320.00 MHz		48	53	--	dB
320.00 …. 325.00 MHz		41	47	--	dB
325.00 …. 337.00 MHz		32	39	--	dB
337.00 …. 339.00 MHz		26	31	--	dB
351.00 …. 358.00 MHz		13	16	--	dB
358.00 …. 370.00 MHz		35	39	--	dB
370.00 …. 700.00 MHz		47	52	--	dB
700.00 …. 1000.0 MHz		40	45	--	dB
Input / Output Impedance		50Ω			

ⓘ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.
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.

For questions on technology, prices and delivery, please contact our sales offices or e-mail info@v-torch.com