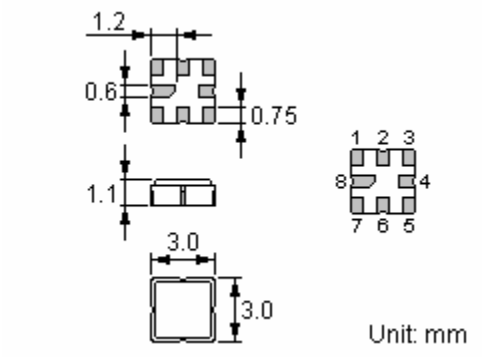
LGE F4109

SAW Filter

The LGE **F4109** is a low-loss, compact, and economical surface-acoustic-wave (**SAW**) RF filter in a surface-mount ceramic **QCC8D** case with center frequency **433.920** MHz.

1. Package Dimension (QCC8D)



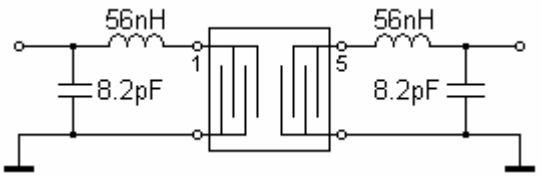
Pin	Configuration
1	Input
5	Output
2, 3, 6, 7	Ground
4, 8	Case Ground

2. Marking

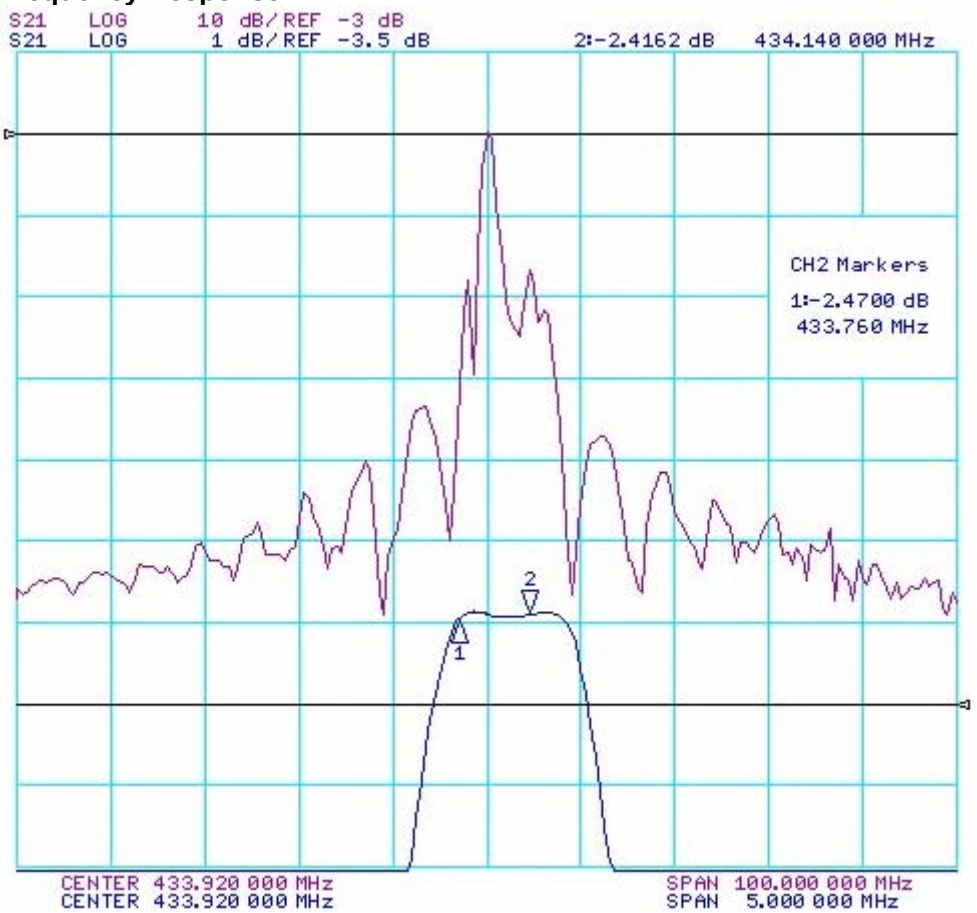
LGE F4109

Laser Marking

3. Matching Circuit



4. Typical Frequency Response



5. Performance

5-1. Maximum Ratings

Rating		Value	Unit
Input Power Level	P	10	dBm
DC Voltage	V_{DC}	12	V
Operable Temperature Range	T_A	-10 to +65	℃
Storage Temperature Range	T_{stg}	-40 to +85	℃

5-2. Electronic Characteristics

Characteristic		Minimum	Typical	Maximum	Unit
Center Frequency	f_C	--	433.920	--	MHz
Insertion Loss 433.760 …. 434.140 MHz	*IL*	 --	 3.0	 4.5	 dB
Relative Attenuation (relative to *IL*) f_C - 21.4 MHz f_C - 10.7 MHz Ultimate	α_{rel}	 38 35 48	 48 45 60	 -- -- --	 dB dB dB
Amplitude Ripple (p-p) 433.760 …. 434.140 MHz	$\Delta\alpha$	 --	 --	 1.0	 dB