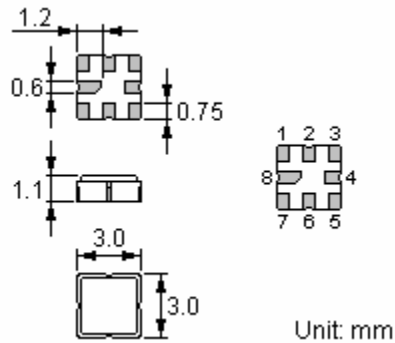


The LGE **F4109** is a low-loss, compact, and economical surface-acoustic-wave (**SAW**) RF filter in a surface-mount ceramic **QCC8D** case with center frequency **433.920 MHz**.

### 1. Package Dimension (QCC8D)



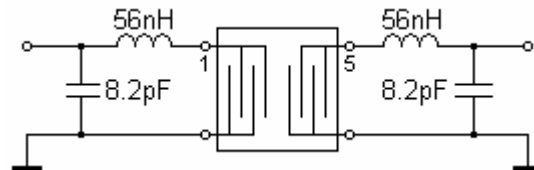
Pin	Configuration
1	Input
5	Output
2, 3, 6, 7	Ground
4, 8	Case Ground

### 2. Marking

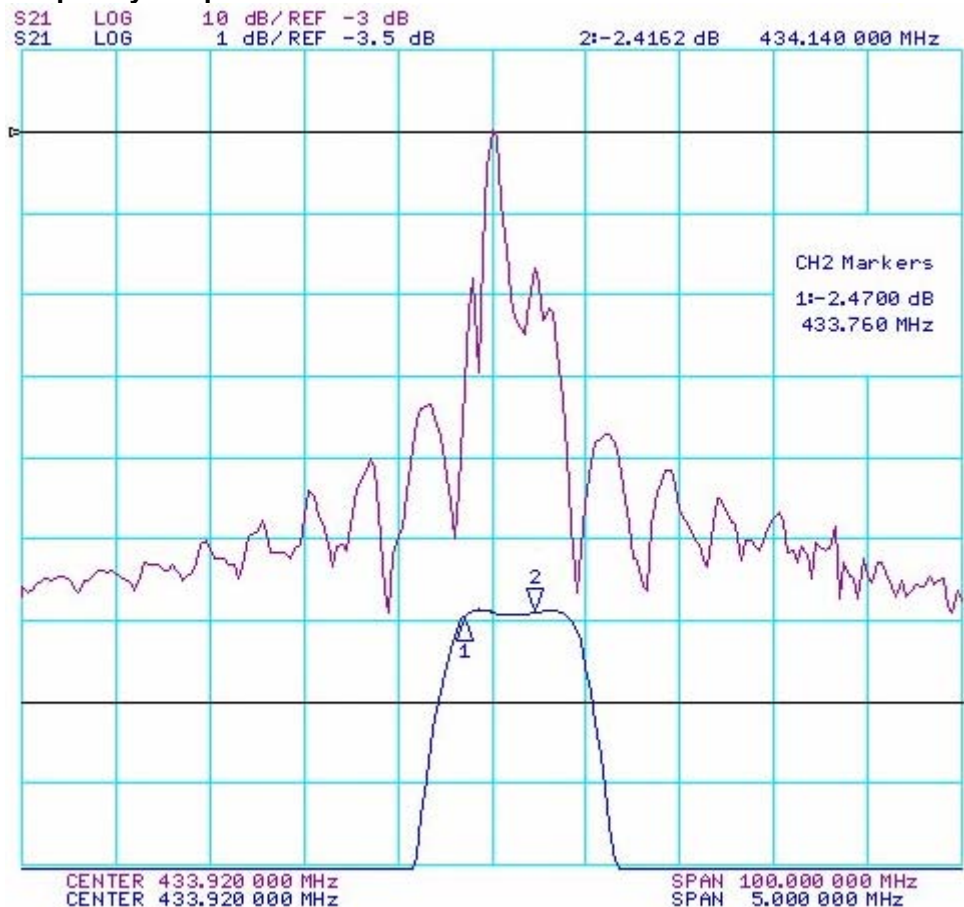
**LGE F4109**

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	°C
Storage Temperature Range	$T_{stg}$	-40 to +85	°C

## 5-2. Electronic Characteristics

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