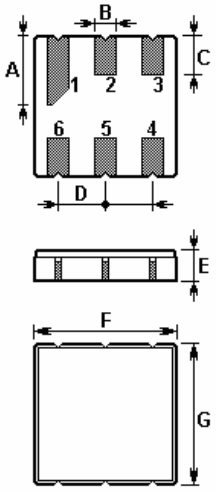
LGE F4149

SAW Filter

The LGE F**4149** is a low-loss, compact, and economical surface-acoustic-wave (**SAW**) RF filter in a surface-mount ceramic **DCC6** case for remote control applications.

1. Package Dimension (DCC6)



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

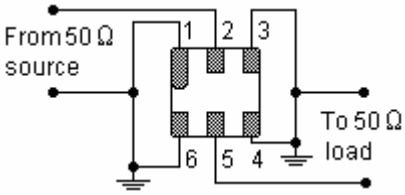
Sign	Data (unit: mm)	Sign	Data (unit: mm)
A	1.9±0.10	E	1.35±0.15
B	0.64±0.10	F	3.8±0.15
C	1.0±0.10	G	3.8±0.15
D	1.27±0.10		

2. Marking

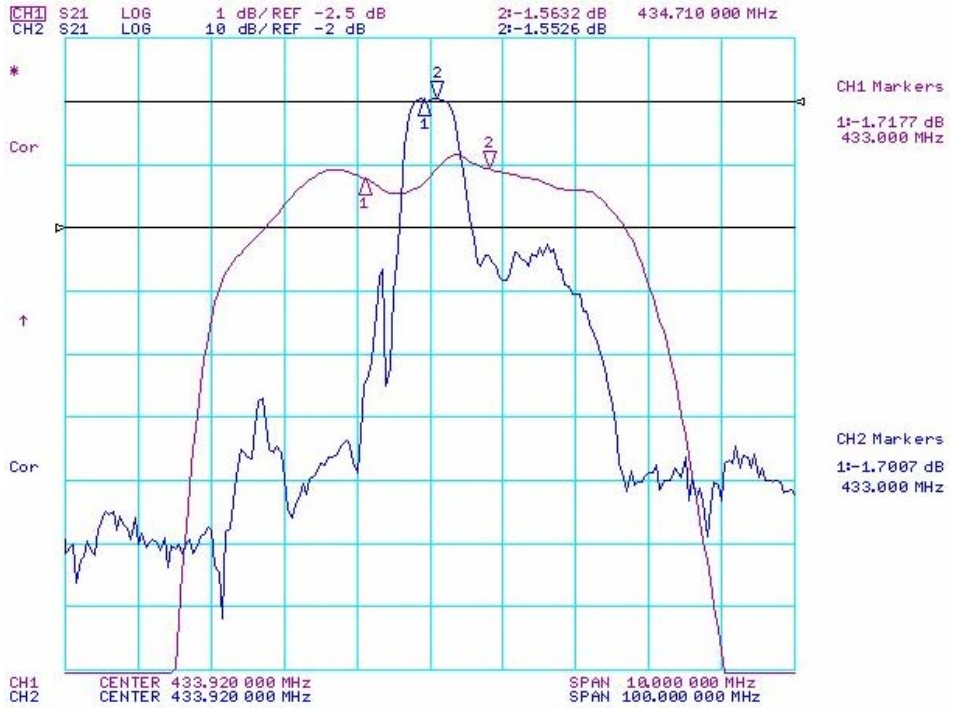
LGE F4149

Laser Marking

3. Matching Circuit



4. Typical Frequency Response



5. Performance

5-1. Maximum Ratings

Rating		Value	Unit
Source Power	P_S	10	dBm
DC Voltage	V_{DC}	0	V
Storage Temperature Range	T_{stg}	-45 to +90	℃
Operating Temperature Range	T_A	-40 to +85	℃

5-2. Electronic Characteristics

Characteristic		Minimum	Typical	Maximum	Unit
Center Frequency	f_C		433.920		MHz
Insertion Loss 433.00 …. 434.71 MHz	*IL*		 2.0	 2.7	 dB
Amplitude Ripple 433.00 …. 434.71 MHz	*Δα*		 0.5	 1.3	 dB
3dB Bandwidth	BW_3		7.2		MHz
Attenuation 10.00 …. 380.00 MHz 380.00 …. 413.50 MHz 413.50 …. 424.00 MHz 443.75 …. 454.00 MHz 454.00 …. 470.00 MHz 470.00 …. 650.00 MHz 650.00 …. 1000.0 MHz	*α*	 55 45 46 20 25 48 38	 60 50 52 25 32 55 45		 dB dB dB dB dB dB dB
Temperature Coefficient of Frequency	TC_f		-30		ppm/K