

DW9274

92.025MHz IF SAW FILTER FOR E-TACs CELLULAR MOBILE PHONES

The DW9274 SAW filter is a Quartz based device offering narrow band, highly selective performance with excellent temperature stability characteristics, which make it an ideal choice for E-TACs cellular mobile phone requirements.

The device is available in a Surface Mount leadless, ceramic chip carrier suitable for high volume, automated assembly systems.

FEATURES

- 92.025MHz Centre Frequency (fo)
- Insertion Loss 3dB (Typ)
- 3dB Bandwidth 30kHz (Min)
- Quartz Temperature Stability
- Low Profile Ceramic SMT Package

ABSOLUTE MAXIMUM RATINGS

DC Voltage VDV 0V
Maximum Input Level 0dBm

ORDERING INFORMATION

DW9274

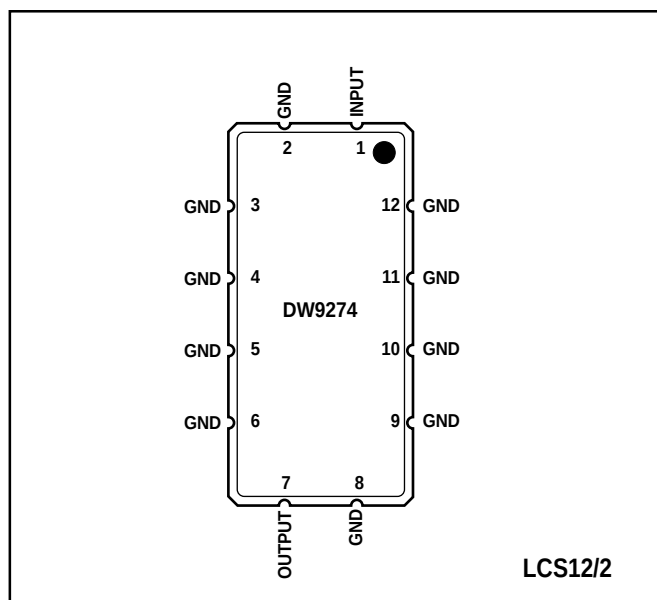


Figure 1

ELECTRICAL SPECIFICATION @25°C

Parameter	Spec	Typ	Units
Nominal Frequency (fo)	92.025	92.025	MHz
Passband			
Insertion Loss (IL)	4 Max	3	dB
3dB Bandwidth	30 Min	63	kHz
Ripple (fo±15kHz)	1 Max	0.5	dB
Group Delay (fo±15kHz)	-	<4	µs
Stopband			
fo±50kHz	5	7	dB
fo±100kHz	35	40	dB
fo+200kHz to fo +500kHz	25	45	dB
fo+500kHz to fo +1000kHz	40	55	dB
fo-300kHz to fo -900kHz	60	70	dB
fo-900kHz to fo -920kHz	70	75	dB
fo-920kHz to fo -1000kHz	60	70	dB
Maximum Input Level	0	-	dB
Operating Temperature Range	-10 to +65°C		
Package	12 Lead Ceramic LCC 13.6 x 6.8 x 1.93mm (Max).		
Terminating Impedance	850Ω/-2pf		

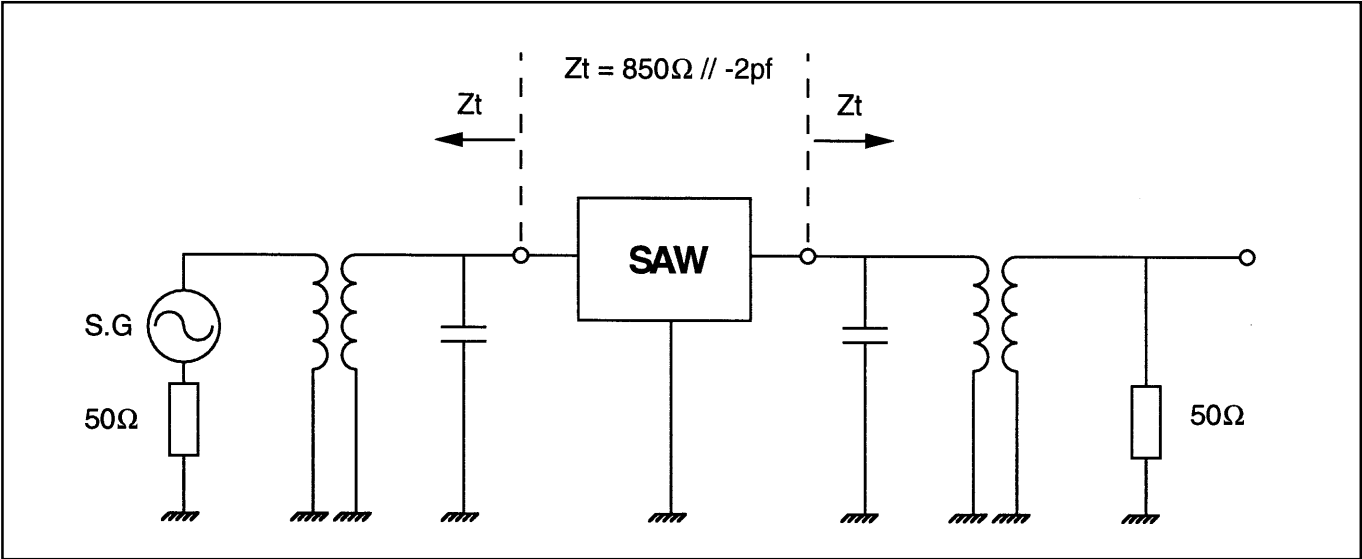


Figure 2: 50Ω Test Circuit

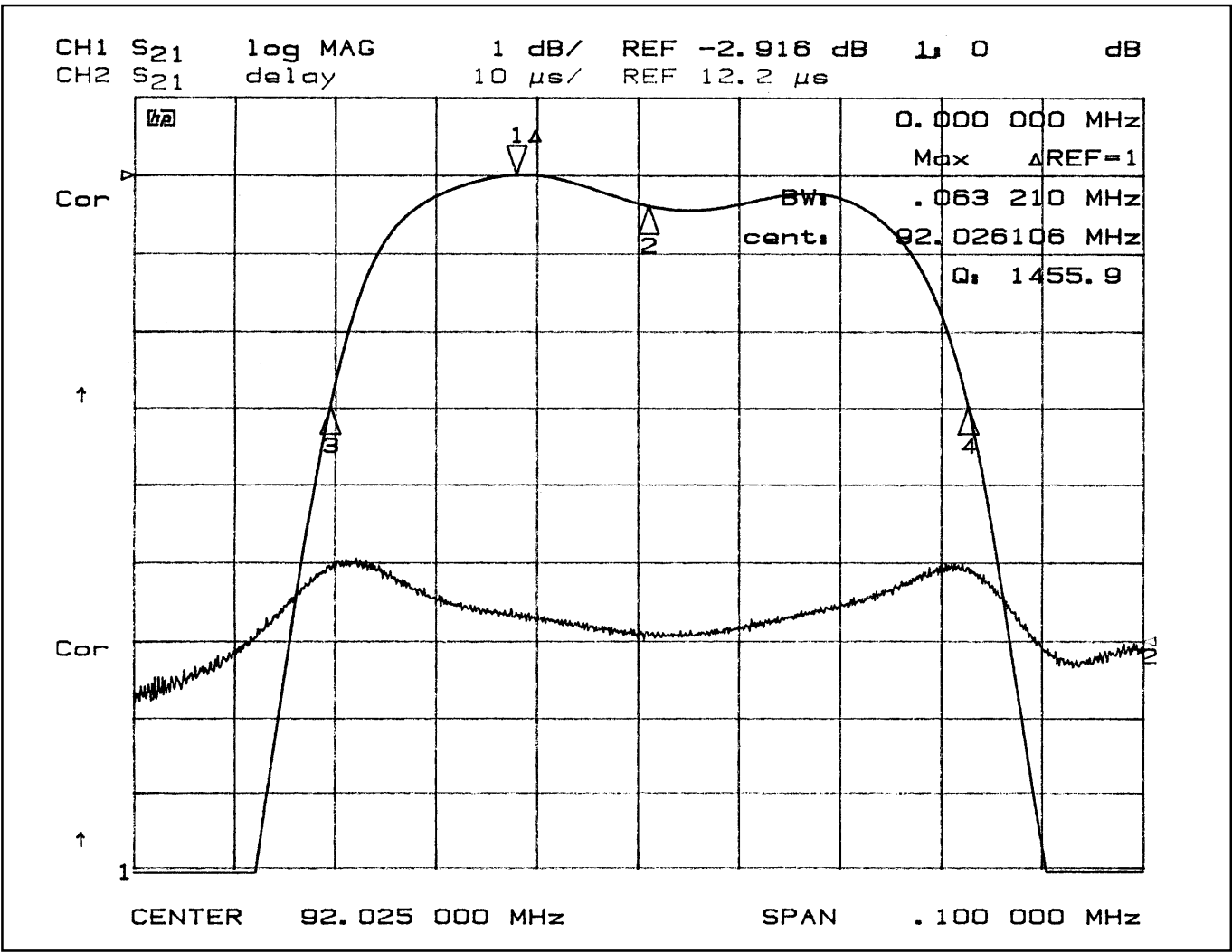


Figure 3: Passband and Group Delay Characteristics

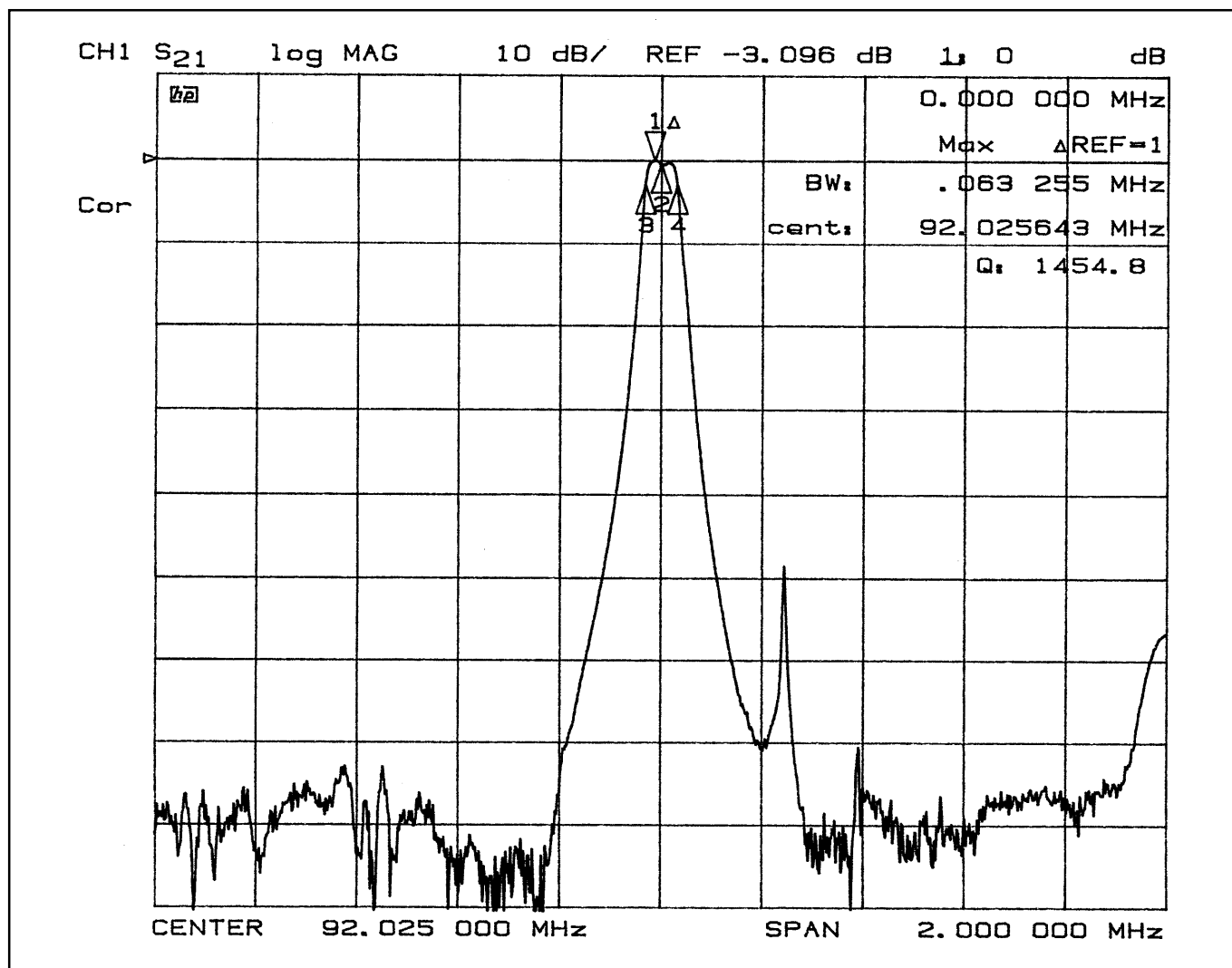
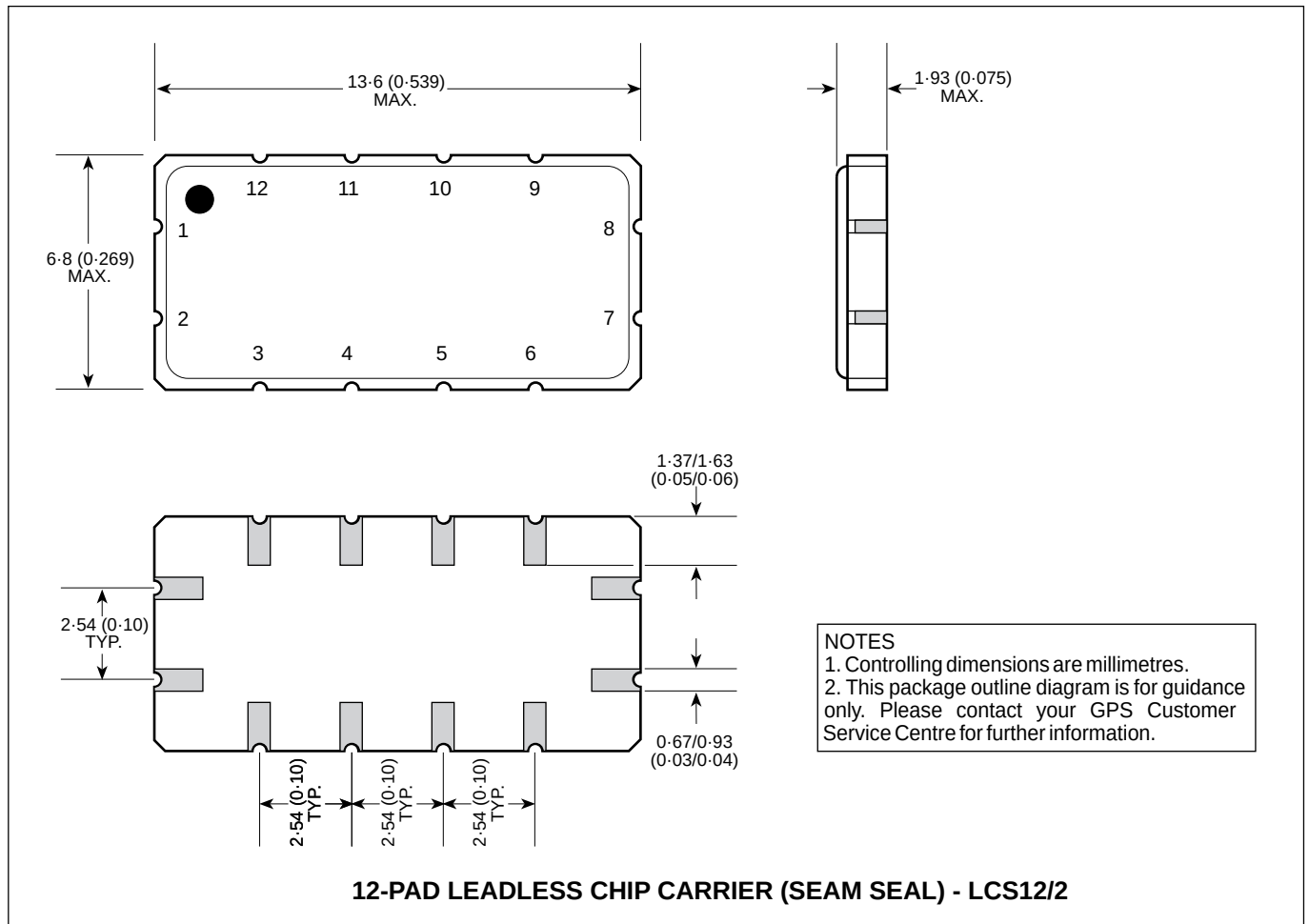


Figure 4: Stopband Rejection Characteristics



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