

DW9276

71MHz IF SAW FILTER FOR GSM MOBILE PHONES

The DW9276 is a 71MHz IF SAW filter which has been specifically designed for cellular radio architectures using the highly integrated 'Sceptre'™ hardware platform for GSM from AT&T Microelectronics.

Based on quartz for excellent temperature stability, the DW9276 provides very high channel selectivity, low Group Delay Ripple and Insertion Loss. Packaged in a Surface Mount, low profile leadless chip carrier, the DW9276 is ideally suited to high volume automatic assembly systems.

ABSOLUTE MAXIMUM RATINGS

DC Voltage	VDC	0V
Input Power Max.	PIN	10dBm

NOMINAL IMPEDANCE

Input:	648Ω // 25pF
Output:	1177Ω // 19pF

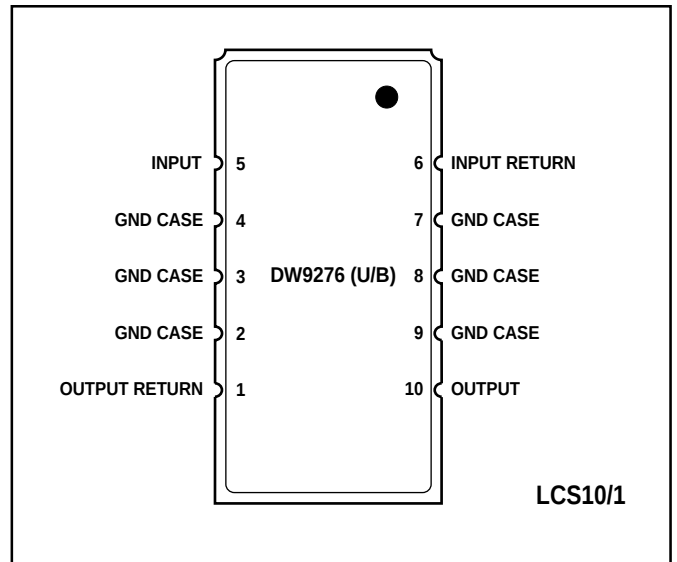
50Ω GPS TEST BOARD COMPONENTS

Input : Series Cap. 11pF, Shunt Ind. 150nH
Output : Shunt Ind. 180nH, Series Cap. 10pF

Components : Coilcraft 1008CS Inductors : Murata 0805 Capacitors

ORDERING INFORMATION

For balanced order DW9276B
For unbalanced order DW9276U



ELECTRICAL CHARACTERISTICS @ 25°C

Parameter	Min.	Typ.	Max.	Units
Centre Frequency (fo)	-	71.0	-	MHz
3dB Bandwidth	±85	±160	-	kHz
Insertion Loss	-	6.0	7.0	dB
Group Delay Ripple	-	200	350	ns
Amplitude Ripple*	-	0.2	0.5	dB
Stopband Rejection:				
fo ±400 - 600kHz	22	25	-	dB
fo ±600 - 1600kHz	28	30	-	dB
fo ±1600 - 3000kHz	38	40	-	dB
fo >±3000kHz	50	53	-	dB
Operating Temperature	-25	-	+80	°C
Temperature Delta	-8.5	-	-	kHz

*Adjacent minima to maxima in 3dB bandwidth.

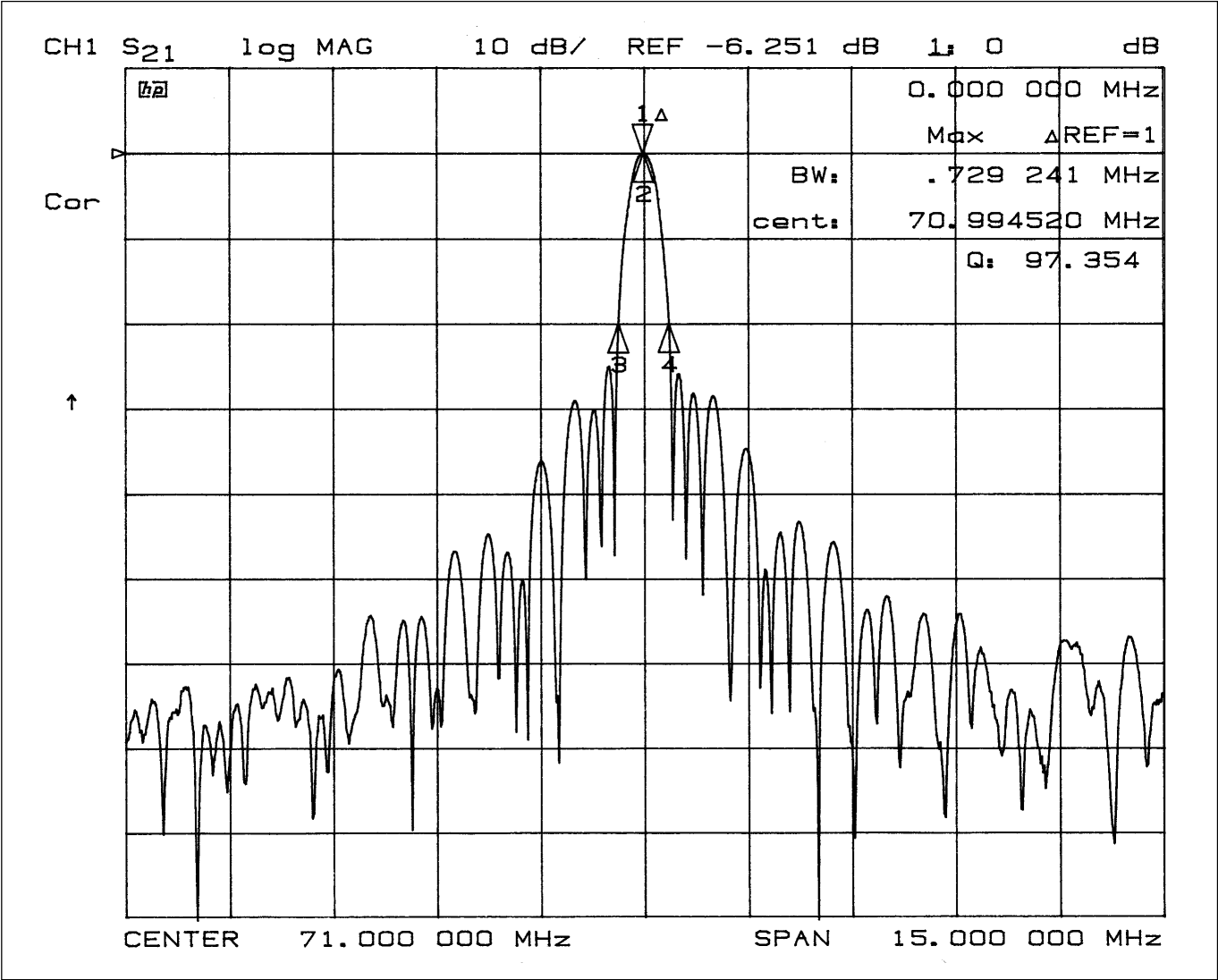


Figure 1: Amplitude Characteristics

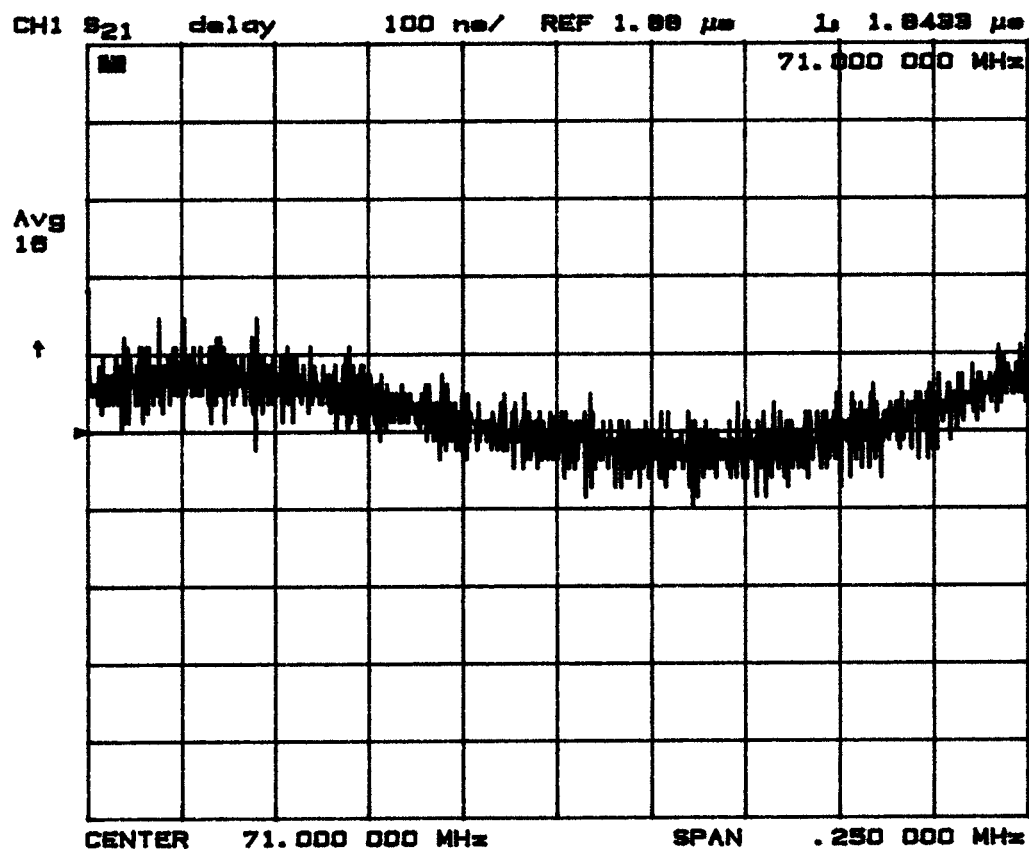
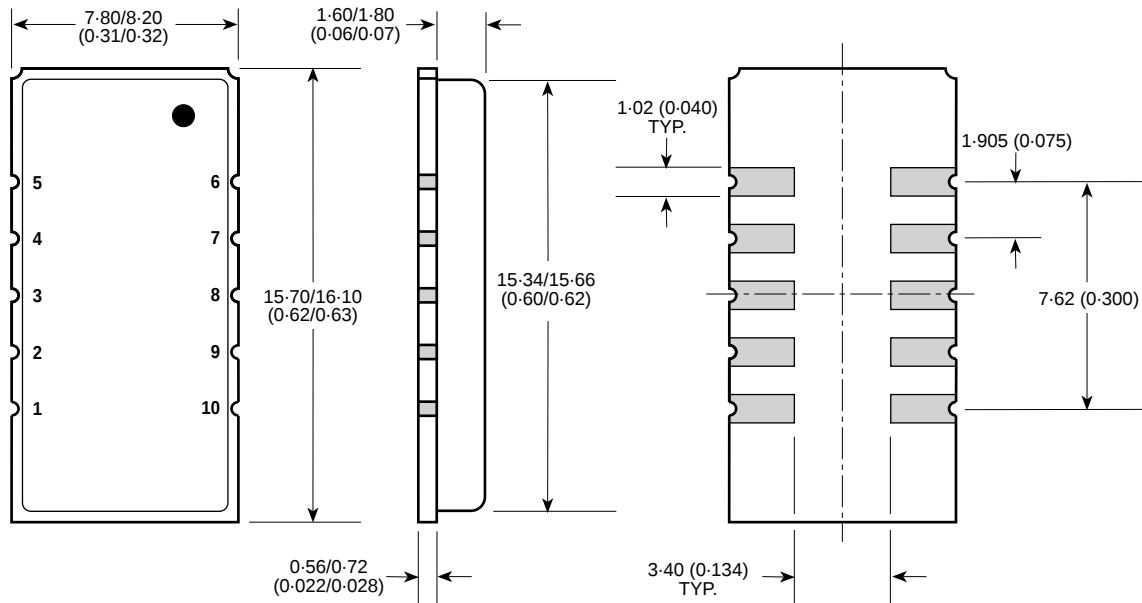


Figure 2: Group Delay Ripple Characteristics

PACKAGE DETAILS

Dimensions are shown thus: mm (in). For further package information, please contact your local Customer Service Centre.



NOTES

1. Controlling dimensions are millimetres.
2. This package outline diagram is for guidance only. Please contact your GPS Customer Service Centre for further information.

10-PAD LEADLESS CHIP CARRIER (SLAM) - LCS10/1



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