

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.

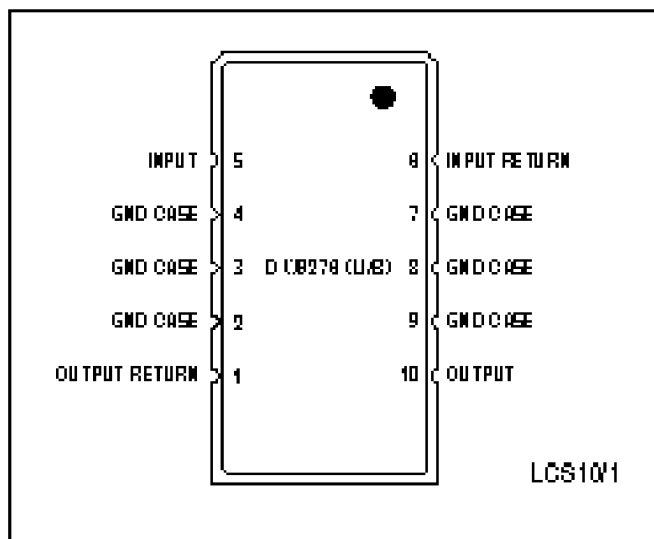
Based on quartz for excellent temperature stability, the DW9276 provides very high channel selectivity, low Group Delay Ripple and Insertion Loss. Packaged in a Surface Mount, low profile leadless chip carrier, the DW9276 is ideally suited to high volume automatic assembly systems.

### ABSOLUTE MAXIMUM RATINGS

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

### NOMINAL IMPEDANCE

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



### 50Ω 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.

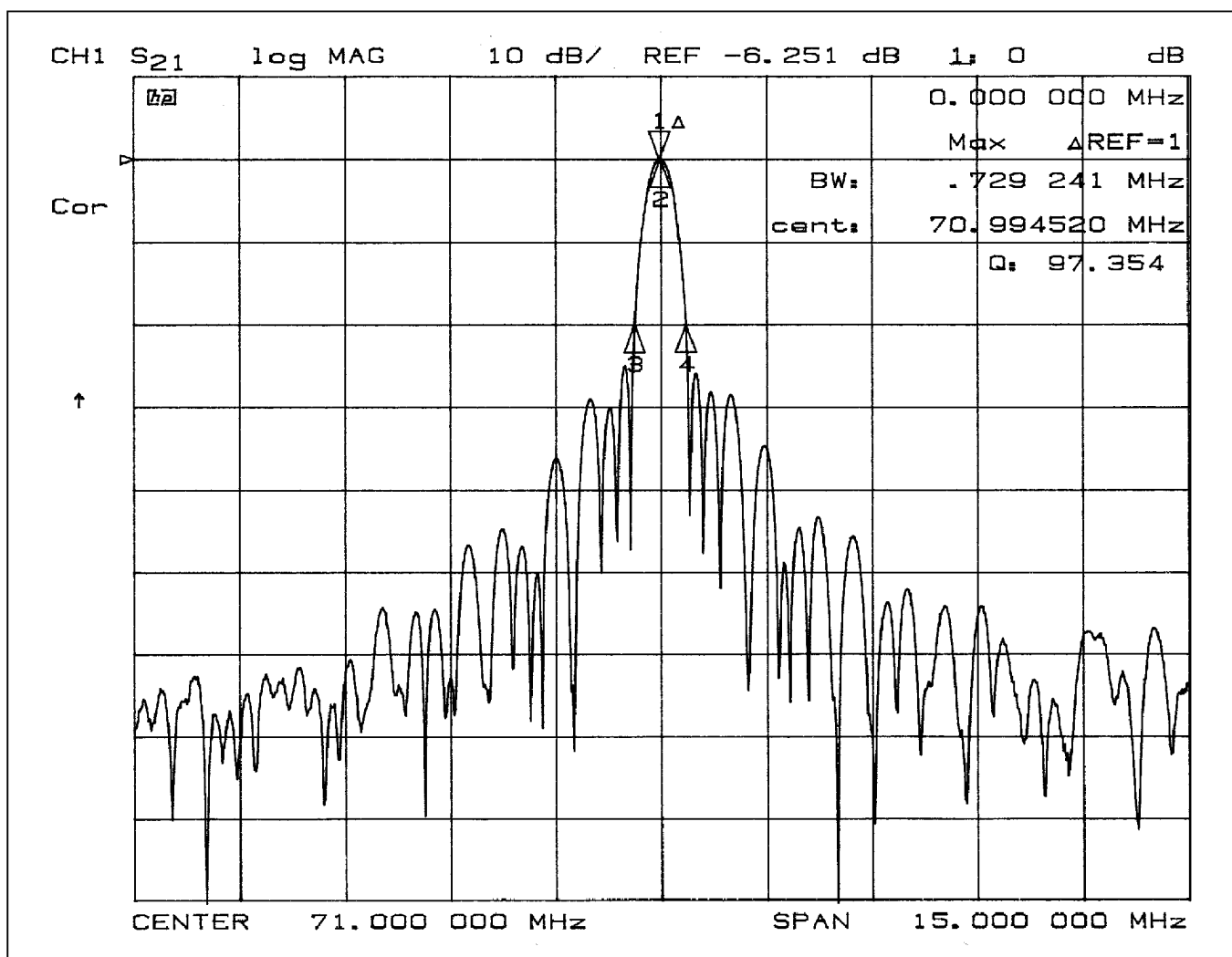


Figure 1: Amplitude Characteristics

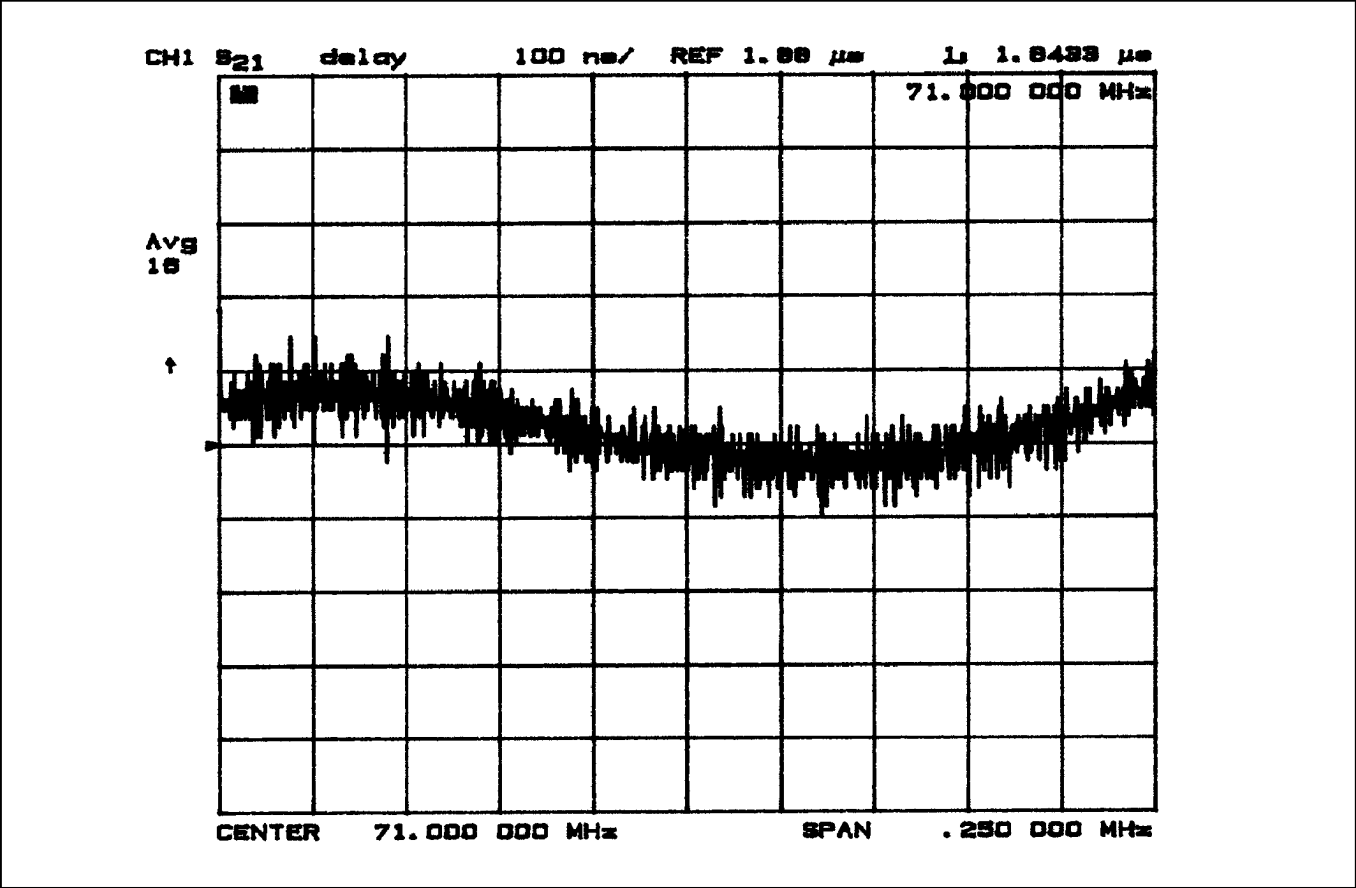
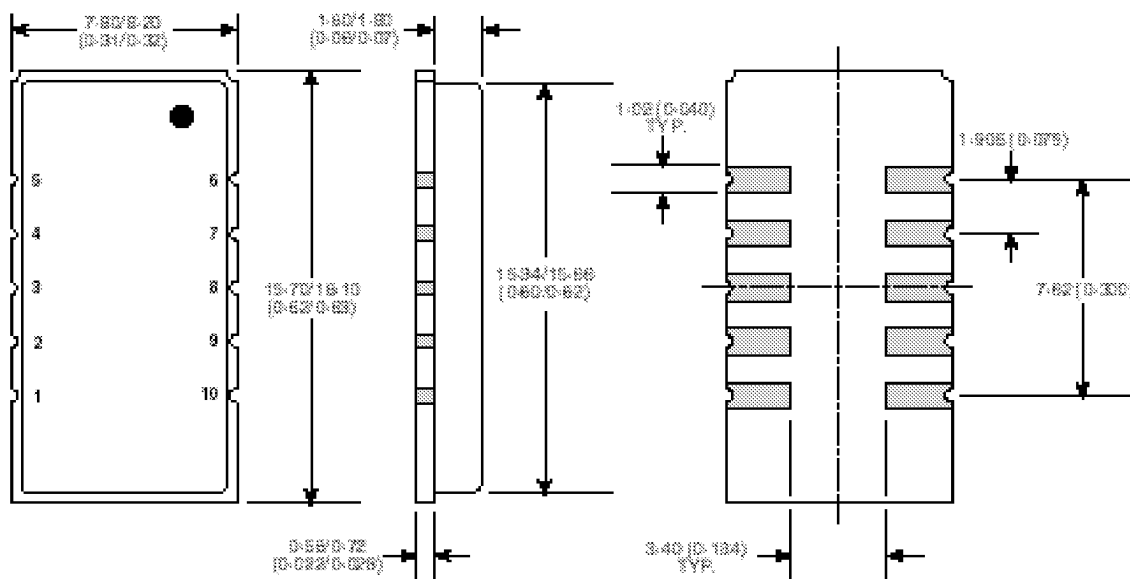


Figure 2: Group Delay Ripple Characteristics

## PACKAGE DETAILS

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



## NOTES

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

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



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