GEC PLESSEY
SEMICONDUCTORS

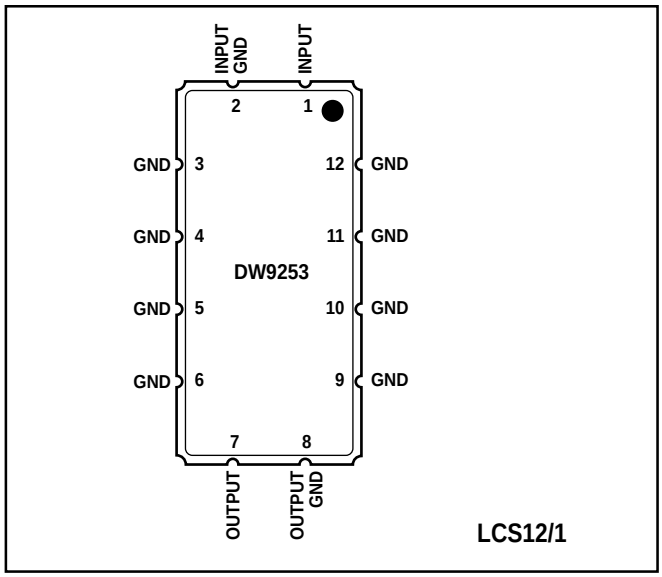
OCTOBER 1995
PRELIMINARY INFORMATION
DS3976-2.1

DW9253

110.592MHz SAW I.F. FILTER FOR DECT PERSONAL COMMUNICATIONS

The DW9253 110.592MHz SAW I.F. filter has been specifically developed for the Digital European Cordless Telephone (DECT) market.

The filter offers excellent temperature stability, (ST-Quartz substrate) plus low Group Delay Ripple (±125ns max.) and is available in the latest, low profile ceramic surface mount package technology.



FEATURES

- Extremely Low Group Delay Ripple
- Wide Operating Temperature
- High Co-channel rejection
- High Adjacent Channel Rejection
- Highly Reproduceable Impedance Characteristics
- Balanced or Unbalanced Drive
- Low Profile Leadless Ceramic Surface Mount Package Suitable for Automated Assembly

ABSOLUTE MAXIMUM RATINGS

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

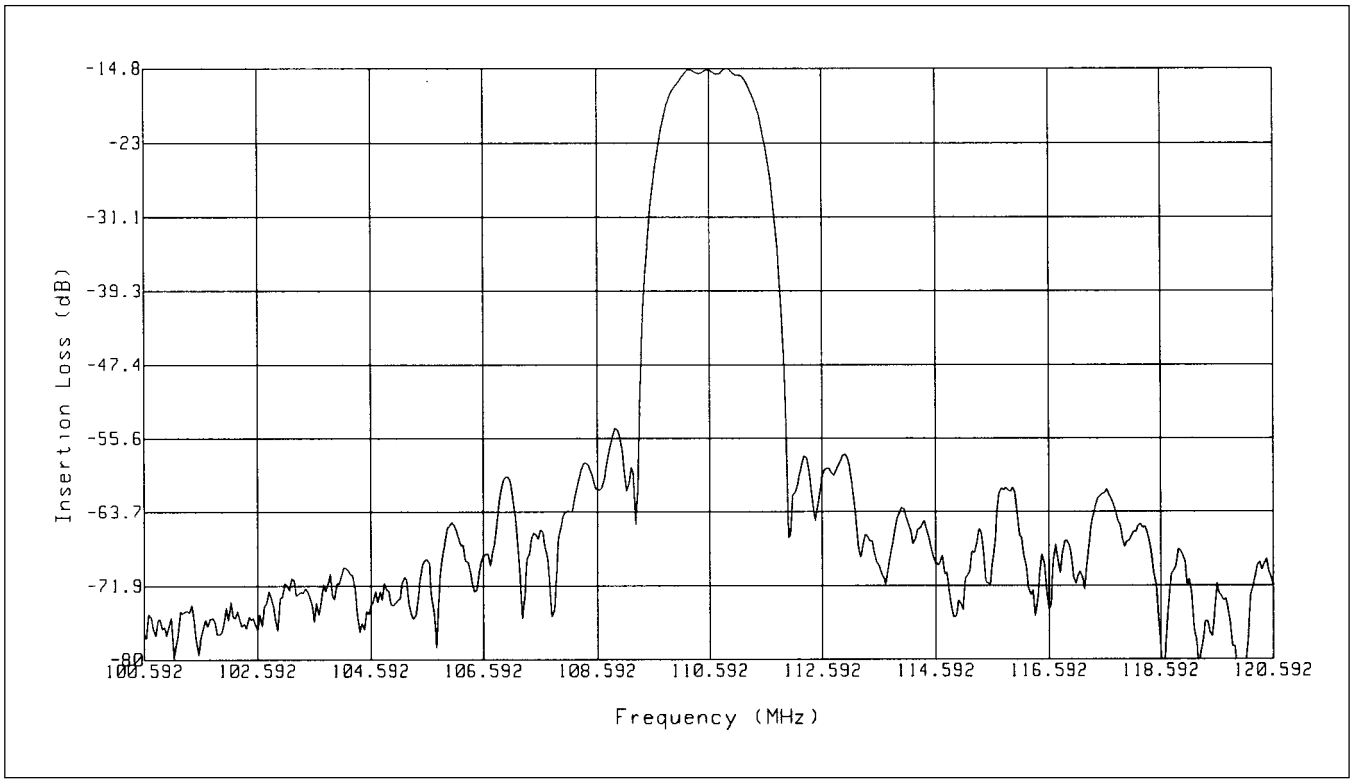
50Ω GPS TEST BOARD COMPONENTS

Input: Series Ind. 180nH, Shunt Cap. 72pF
Output: Series Ind. 100nH

Components: Coilcraft 1008CS Inductors : Murata 0805 Capacitors

ORDERING INFORMATION

DW9253



Typical Response of DW9253

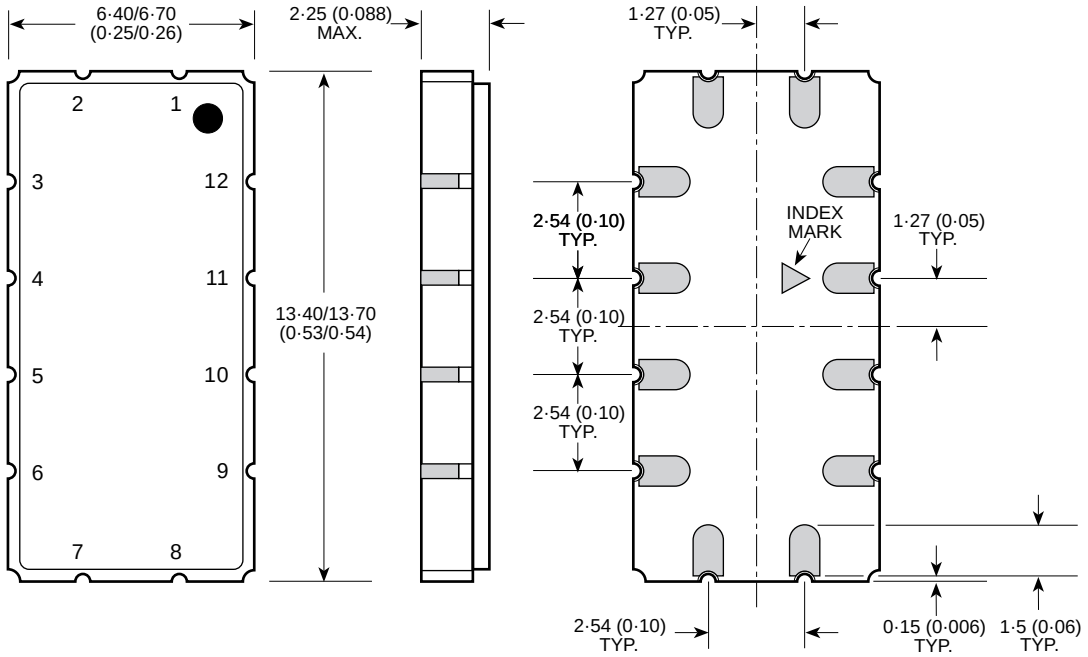
ELECTRICAL CHARACTERISTICS @ 25°C

Parameter	Typ	Min	Units
Centre Frequency (F_O)	110.592		MHz
-3dB Bandwidth	±700	±576	KHz
Group Delay Ripple (F_O±576kHZ)	±95	±125 (Max)	ns
Insertion Loss	15	16 (Max)	dB
Stopband Attenuation:			
F_O ±1.152MHz	20	>15	dB
F_O ±1.728MHz	40	>30	dB
F_O ±3.556MHz	45	>40	dB
F_O ±5MHz	46	>42	dB
Amplitude Ripple (pk to pk)	±0.4	±0.6	dB
Input Impedance		1.1KΩ // 9.25pF	
Output Impedance		1.2KΩ // 12pF	
Operating Temperature Range		-20 to +85	°C

GPS reserves the right to modify these 'datasheets' when necessary to provide optimum performance and cost.

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.

12-PAD LEADLESS CHIP CARRIER (SEAM SEAL) - LCS12/1

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