

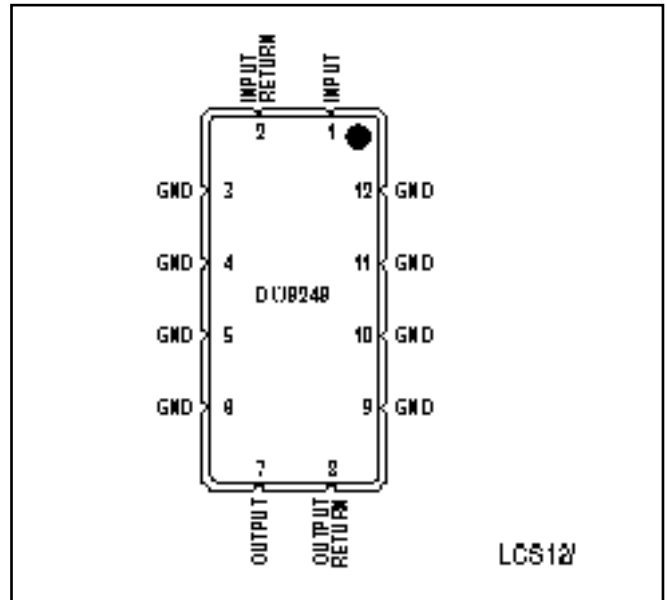
The DW9249 112.32MHz SAW I.F. filter has been specifically developed for the Digital European Cordless Telephone (DECT) market.

By using a centre frequency of 112.32MHz, the DW9249 overcomes the potential problems of 6th and 8th harmonic interference often associated with filters centred at 110.592MHz.

The filter offers excellent temperature stability, (ST-Quartz substrate) plus low Group Delay Ripple ( $\pm 100\text{ns}$  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

### NOMINAL IMPEDANCE

Input:	1.1k // 9.25pF
Output:	1.2k // 12pF

### 50 TEST BOARD COMPONENTS

Input:	Series Ind. 180nH, Shunt Cap. 60.7pF
Output:	Series Ind. 100nH

Components: Coilcraft 1008CS Inductors : Murata 0805 Capacitors

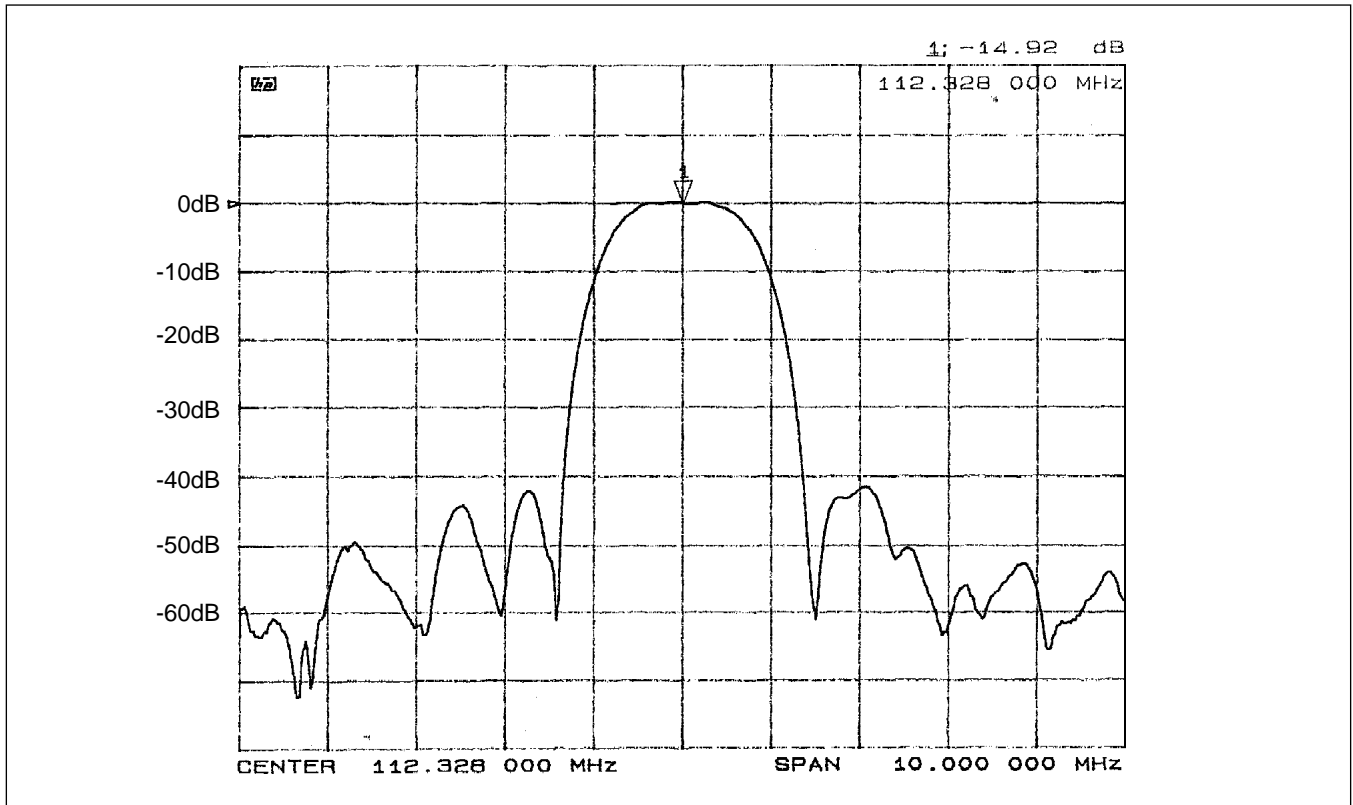
### ORDERING INFORMATION

DW9249

### REFERENCE APPLICATION NOTE:

DW9249 - SAW Bandpass Filter for D.E.C.T.

**DW9249**



*Typical Response of DW9249*

**ELECTRICAL CHARACTERISTICS @ 25°C**

Parameter	Typ		Units
Centre Frequency (F <sub>0</sub> )		112.320	MHz
-3dB Bandwidth	±720	±576	KHz
Group Delay Ripple (F <sub>0</sub> ±576kHz)	±80	±100 (Max)	ns
Insertion Loss	15	16 (Max)	dB
Stopband Attenuation:			
F <sub>0</sub> ±1.152MHz	20	>15	dB
F <sub>0</sub> ±1.728MHz	40	>30	dB
F <sub>0</sub> ±3.556MHz	45	>40	dB
F <sub>0</sub> ±5MHz	50	>45	dB
Amplitude Ripple (pk to pk)	±0.4	±0.6	dB
Operating Temperature Range		-20 to +85	°C

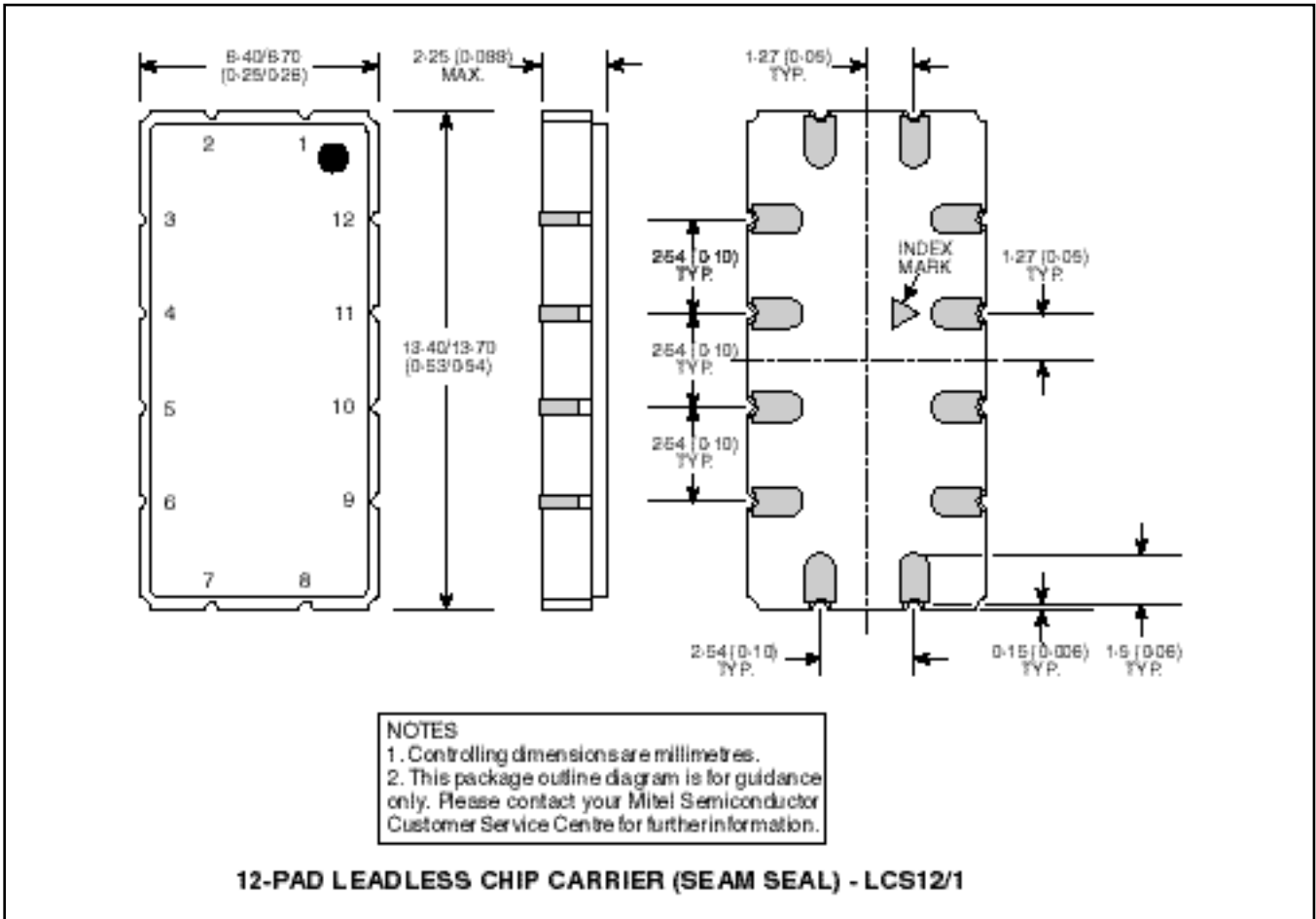
GPS reserves the right to modify these 'datasheets' when necessary to provide optimum performance and cost.



# DW9249

## PACKAGE DETAILS

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



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