

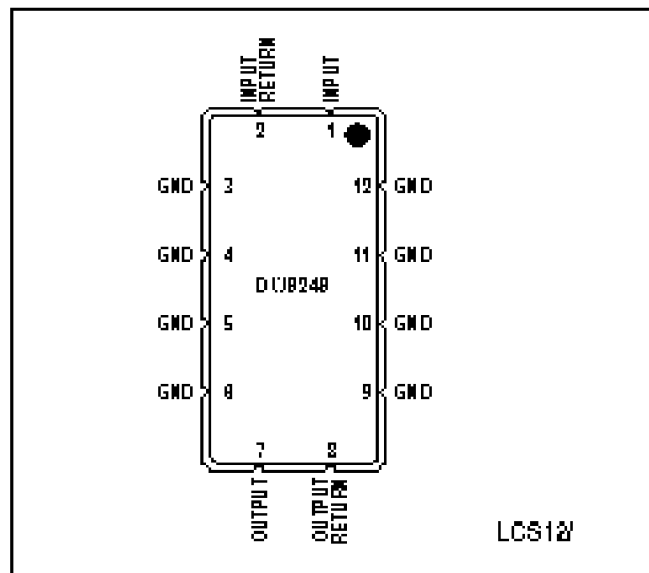
The DW9249 112.32MHz SAW I.F. filter has been specifically developed for the Digital European Cordless Telephone (DECT) market.

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 Reproducible 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 Ω // 9.25pF
Output:	1.2k Ω // 12pF

50 Ω TEST BOARD COMPONENTS

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

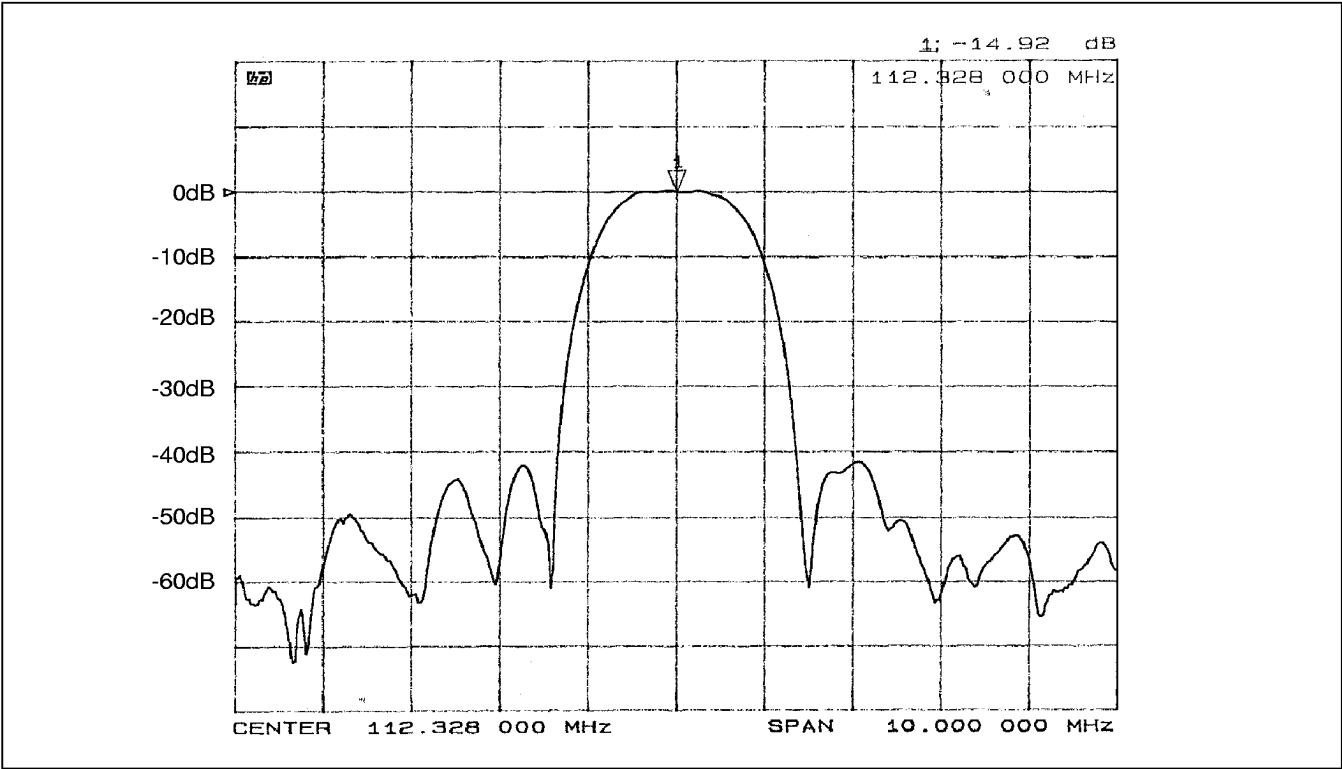
Components: Coilcraft 1008CS Inductors : Murata 0805 Capacitors

ORDERING INFORMATION

DW9249

REFERENCE APPLICATION NOTE:

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



Typical Response of DW9249

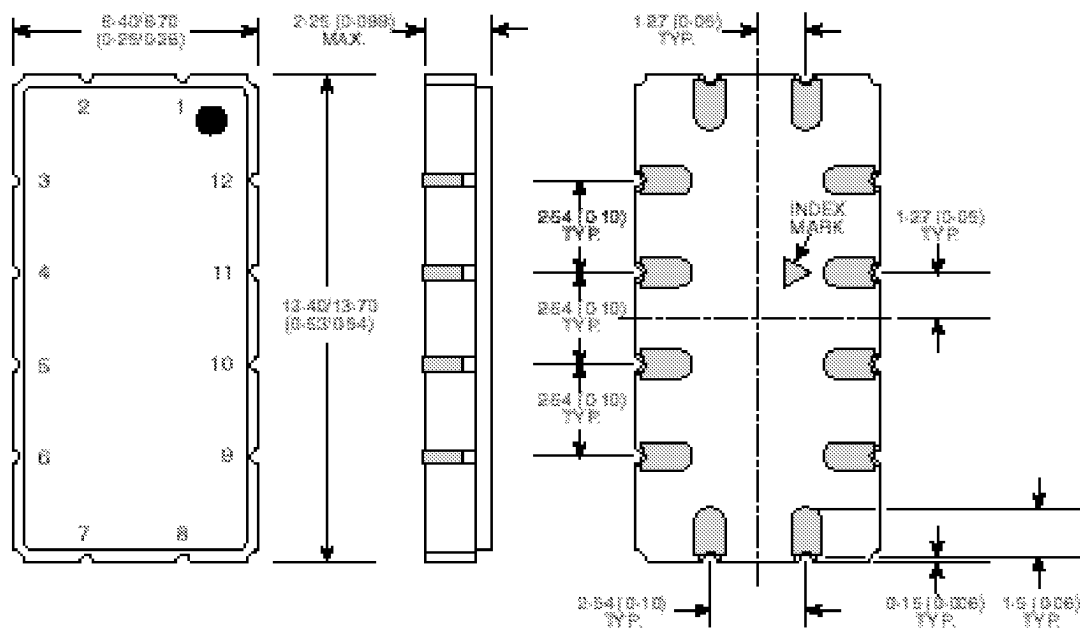
ELECTRICAL CHARACTERISTICS @ 25°C

Parameter	Typ		Units
Centre Frequency (F_0)		112.320	MHz
-3dB Bandwidth	± 720	± 576	KHz
Group Delay Ripple ($F_0 \pm 576\text{kHz}$)	± 80	± 100 (Max)	ns
Insertion Loss	15	16 (Max)	dB
Stopband Attenuation:			
$F_0 \pm 1.152\text{MHz}$	20	>15	dB
$F_0 \pm 1.728\text{MHz}$	40	>30	dB
$F_0 \pm 3.556\text{MHz}$	45	>40	dB
$F_0 \pm 5\text{MHz}$	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.

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 Mitel Semiconductor Customer Service Centre for further information.

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



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