

240.192MHz IF SAW Filter

Advance Information

DS4025 - 1.4 October 1995

The DW9268 has been designed specifically for the Digital Cordless Personal Communications market as an IF filter with a centre frequency of 240.192MHz. The filter utilises GPS's low loss (7dB typical), Transversal filter technology based on a Quartz substrate for excellent temperature stability.

A 3dB passband of 1.3MHz (typical) is maintained whilst providing rejection to adjacent and alternate interferers compliant to the DECT Common Interface specification Part 2 - The Physical Layer. The device also exhibits excellent close-in and ultimate rejection, which combined with a Group Delay Ripple of 200ns maximum makes the DW9268 and ideal IF filter for Digital Cordless Personal Communications systems.

The device is packaged in a surface mount, leadless ceramic chip carrier, suited to high volume automated assembly systems.

FEATURES

- 240.192MHz Centre Frequency (fo)
- Low Insertion Loss (8dB maximum)
- 3dB Passband 1.3MHz (typical)
- Quartz Temperature Stability
- Low Profile Ceramic LCC Package

ABSOLUTE MAXIMUM RATINGS

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

NOMINAL IMPEDANCE

Input: 500 // 16pF Output: 625 // 14pF

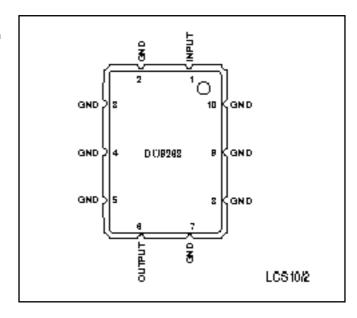
50 TEST BOARD COMPONENTS

Input: Shunt Cap. 45pF, Series Ind. 47nH Output: Series Ind. 47nH, Shunt Cap. 34pF

Components: Coilcraft 1008CS Inductors: Murata 0805 Capacitors

ORDERING INFORMATION

DW9268

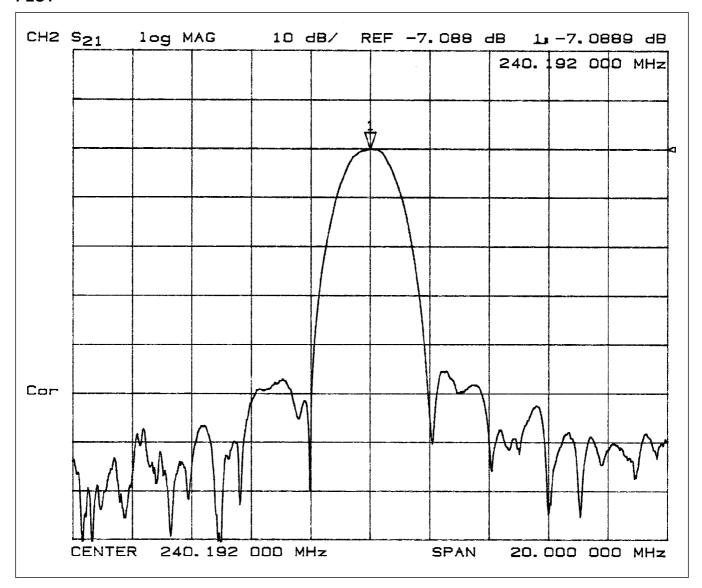


ELECTRICAL CHARACTERISTICS @ 25°C

DW9268

Parameter	Min	Тур	Max	Units
Centre Frequency	-	240.192	-	MHz
3dB Bandwidth	1260	1300	1340	kHz
Insertion Loss	-	7	8	dB
Amplitude Ripple	-	0.2	1	dB
Group Delay Ripple	-	100	200	ns
Stopband Rejection fo ± 1.152 MHz fo ± 1.728 MHz fo ± 2.880 MHz fo ± 5.0 MHz Operating Temperature Range	10 30 40 50 -20	12 32 50 55	- - - - +80	dB dB dB dB

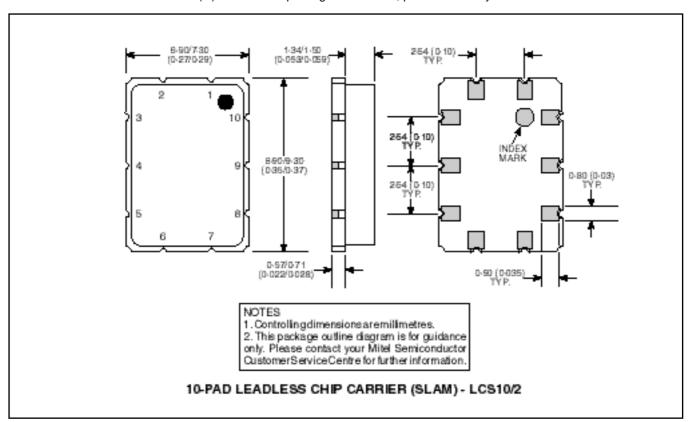
PLOT



DW9268

PACKAGE DETAILS

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





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