

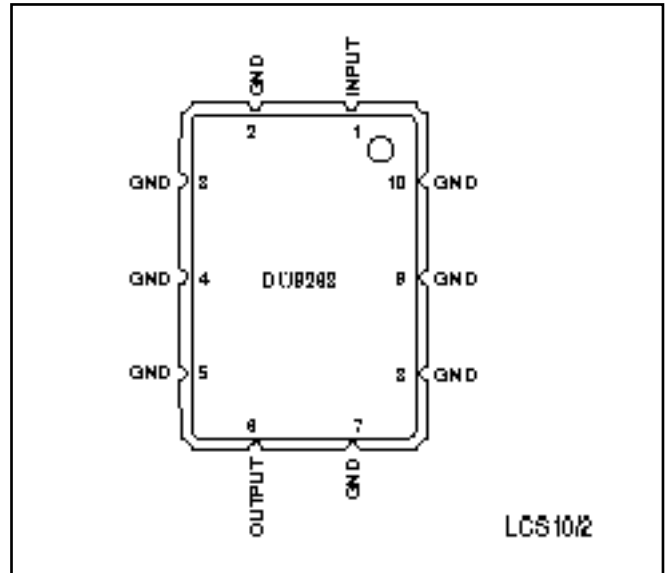
The DW9268 has been designed specifically for the Digital Cordless Personal Communications market as an IF filter with a centre frequency of 240.192MHz. The filter utilises GPS's low loss (7dB typical), Transversal filter technology based on a Quartz substrate for excellent temperature stability.

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 an 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**

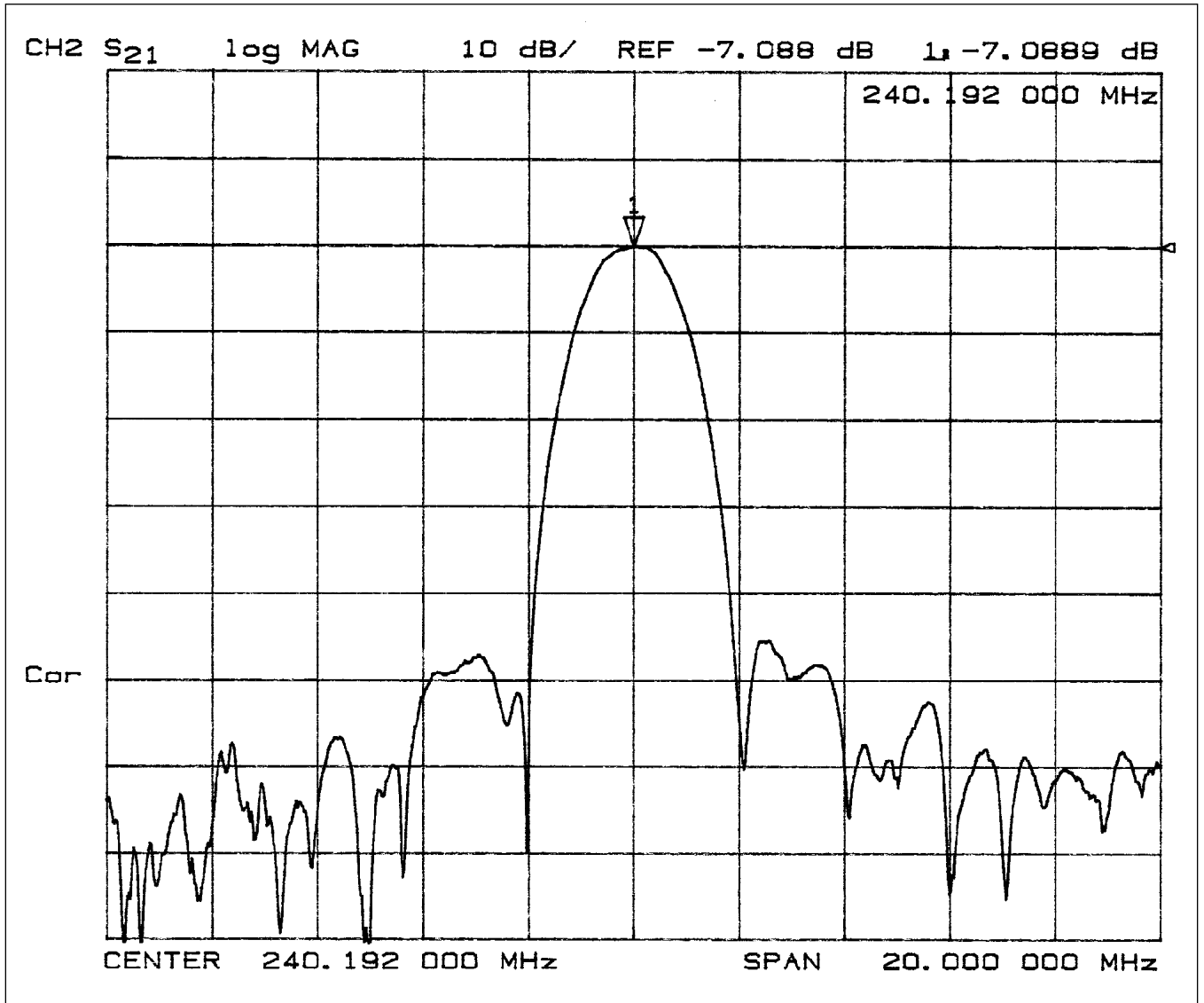
DW9268

## DW9268

### ELECTRICAL CHARACTERISTICS @ 25°C

Parameter	Min	Typ	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	10	12	-	dB
fo ± 1.728 MHz	30	32	-	dB
fo ± 2.880 MHz	40	50	-	dB
fo ± 5.0 MHz	50	55	-	dB
Operating Temperature Range	-20	-	+80	°C

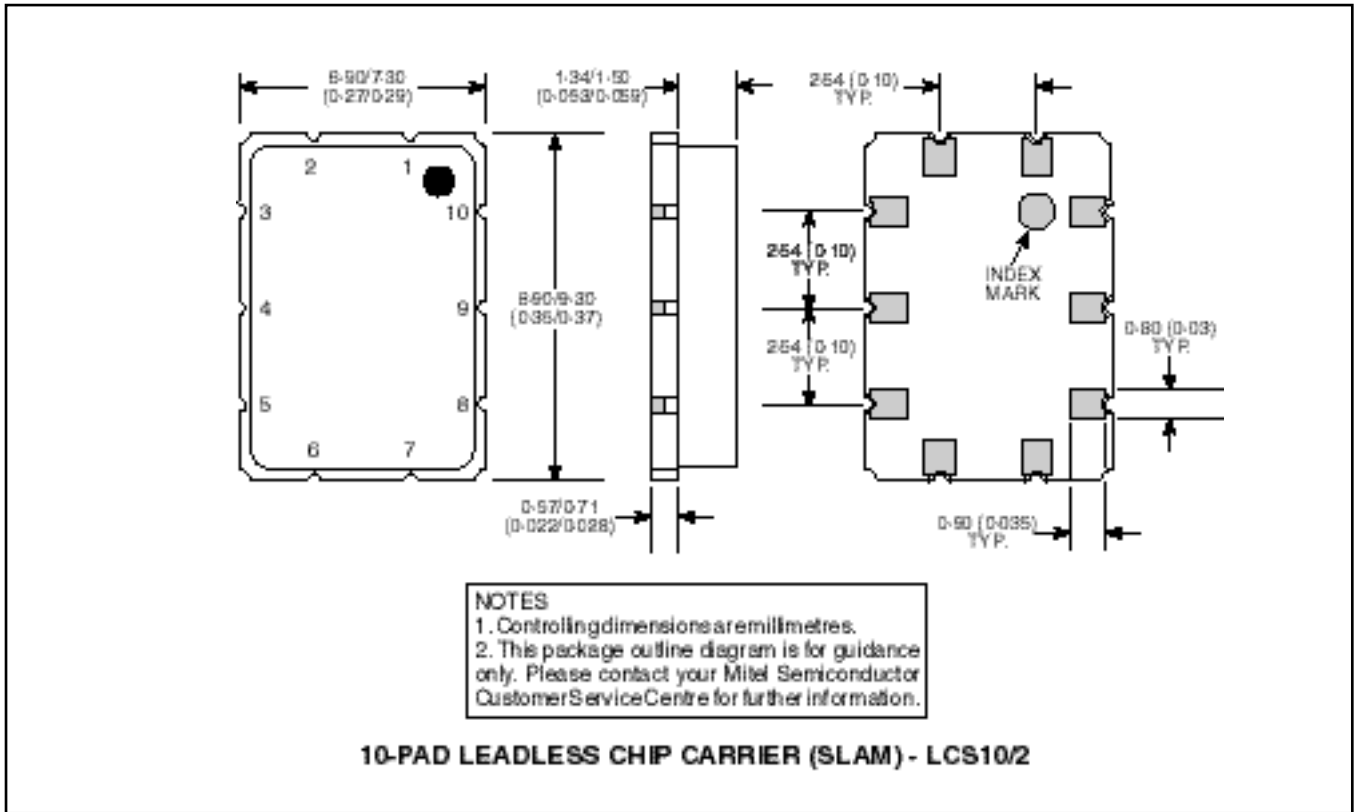
PLOT



# DW9268

## PACKAGE DETAILS

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



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