

DW9256

133MHz IF SAW FILTER FOR GSM MOBILE PHONES

The DW9256 has been designed specifically for the Personal Communications market, as an IF filter with a centre frequency of 133MHz. The filter utilises GPS's low loss Transversal filter technology based on a Quartz substrate for excellent temperature stability.

A minimum 3dB passband of \pm 75kHz is combined with a high shape factor to give good adjacent channel rejection.

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

FEATURES

- 133MHz Centre Frequency (fo)
- Low Insertion Loss (7dB maximum)
- 3dB Passband ±75kHz (minimum)
- Quartz Temperature Stability
- Low Profile Ceramic LCC Package

GND INPUT 14 15 INPUT RETURN 13 16 GND GND GND GND 18 **OUTPUT RETURN** GND 10 OUTPUT GND GND 9 GND GND GND GND GND GND DW9256 LCS18

ABSOLUTE MAXIMUM RATINGS

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

NOMINAL IMPEDANCE

Input: 520Ω // 20pFOutput: 200Ω // 30pF

50Ω GPS TEST BOARD COMPONENTS

Input: Series Ind. 180nH, Shunt Ind. 100nH, Shunt Cap. 2.2pF

Output: Shunt Ind. 68nH, Series Ind. 82nH

Components: Coilcraft 1008CS Inductors : Murata 0805 Capacitors

ORDERING INFORMATION

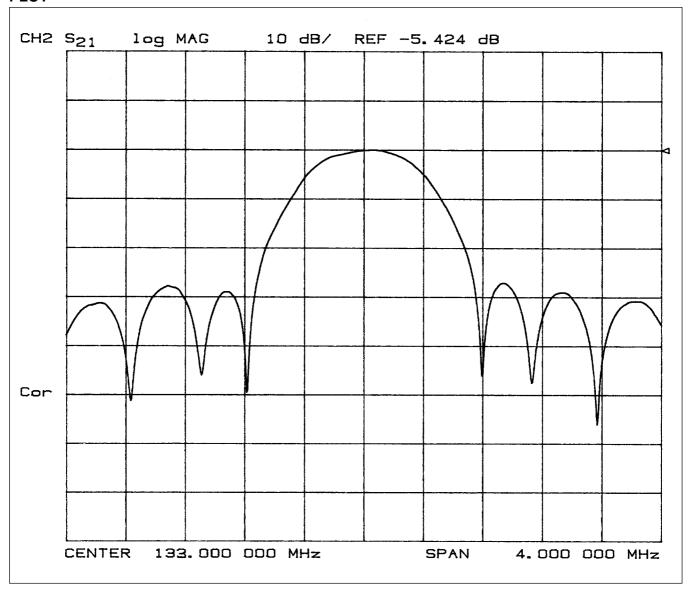
DW9256

ELECTRICAL CHARACTERISTICS @ 25°C

DW9256

Parameter	Min	Тур	Max	Units
Centre Frequency	-	133	-	MHz
1dB Bandwidth	±75	±170	-	kHz
3dB Bandwidth	±75	±300		kHz
Insertion Loss	4	5	7	dB
Amplitude Ripple	-	0.5	2	dB
Group Delay Ripple	-	150	1000	ns
Stopband Rejection: fo ± 400 - 600 kHz fo ± 600 - 800 kHz fo ± 800 - 1500 kHz fo - 1500 kHz - 50 MHz fo + 1500 kHz + 200 MHz Operating Temperature Range	3 10 20 30 30 -20	5 15 30 35 35	- - - - - +80	dB dB dB dB dB

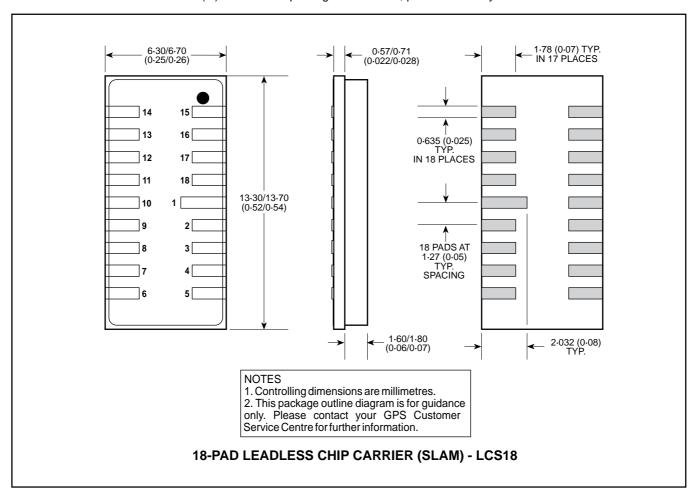
PLOT



DW9256

PACKAGE DETAILS

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





HEADQUARTERS OPERATIONS GEC PLESSEY SEMICONDUCTORS

Cheney Manor, Swindon, Wiltshire SN2 2QW, United Kingdom.

Tel: (01793) 518000 Fax: (01793) 518411

GEC PLESSEY SEMICONDUCTORS

P.O. Box 660017 1500 Green Hills Road, Scotts Valley, California 95067-0017, United States of America.

Tel: (408) 438 2900 Fax: (408) 438 5576

CUSTOMER SERVICE CENTRES

- FRANCE & BENELUX Les Ulis Cedex Tel: (1) 69 18 90 00 Fax: (1) 64 46 06 07
- GERMANY Munich Tel: (089) 3609 06-0 Fax: (089) 3609 06-55
- ITALY Milan Tel: (02) 66040867 Fax: (02) 66040993
- JAPAN Tokyo Tel: (03) 5276-5501 Fax: (03) 5276-5510
- NORTH AMERICA Scotts Valley, USA Tel (408) 438 2900 Fax: (408) 438 7023.
- SOUTH EAST ASIA Singapore Tel: (65) 3827708 Fax: (65) 3828872
- SWEDEN Stockholm Tel: 46 8 702 97 70 Fax: 46 8 640 47 36
- TAIWAN, ROC Taipei Tel: 886 2 5461260. Fax: 886 2 7190260
 UK, EIRE, DENMARK, FINLAND & NORWAY

Swindon Tel: (01793) 518527/518566 Fax: (01793) 518582

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