

# DW9240

## 65.8125MHz LOW LOSS SAW I.F. FILTER FOR GSM PERSONAL COMMUNICATIONS

The DW9240 Low Loss SAW Filter has been developed specifically for the Personal Communications market, where the 1st I.F. Filter Stage is typically in the 60 to 80MHz range. The unique design obviates the need for distinct Roof and Channel Filters usually required to achieve a low shape factor with maximum bandwidth. The filters can be used in single or cascade format, and are available in a low profile, cost effective, surface mountable ceramic package, (alternative packages available upon request).

### FEATURES

- Unique Cascade Design Obviates the need for distinct Roof and Channel Filters
- Low Insertion Loss (<7dB Single Filter, <14dB Cascaded Filters)
- Excellent Sidelobe Suppression when used in Cascade
- Low Profile Leadless Surface Mount Package - 40% size reduction against current solutions, (other packages available upon request)
- Hermetically Sealed Package

### ELECTRICAL CHARACTERISTICS

Centre Frequency ( $F_0$ )	65.8125MHz
Insertion Loss	6.5dB Typ
Passband Characteristics	
1.5dB	$F_0 \pm 82.5\text{kHz Min}$
8.5dB	$F_0 \pm 200\text{kHz Max}$
20dB	$F_0 \pm 400\text{kHz Max}$
25dB	$F_0 \pm 600\text{kHz Max}$
Stop Rejection	
$F_0 - 1.8\text{MHz}$	38dB Min
$F_0 \pm 1\text{MHz to } 20\text{MHz}$	35dB Min
Group Delay Variation	0.5 $\mu\text{sec Typ}$
Maximum Input Level	10dBm
Intermodulation (two tones outside pass band with 800kHz separation)	+19dBm
Impedance In/Out (with external matching)	600R
VSWR In/Out When Matched	1:1.5
Temperature Range	-20° to +85°C

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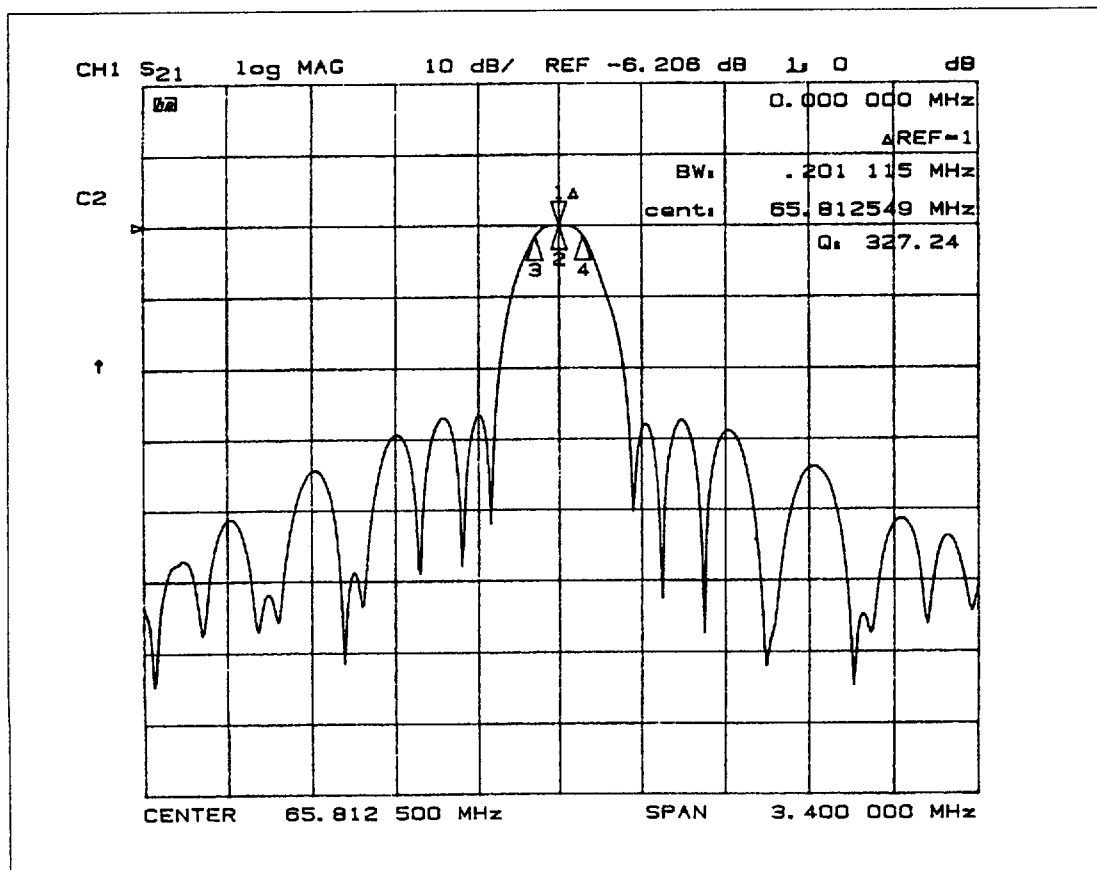


Figure 1: Typical Single Filter Response

PACKAGE DETAILS

