



SAW Components

Data Sheet B4869

Data Sheet

A large, stylized, and somewhat abstract graphic of the EPCOS logo. The letters "EPCOS" are rendered in a bold, sans-serif font, appearing to be part of a larger, curved structure that resembles a stylized globe or a series of overlapping planes. The graphic is in grayscale and has a soft, glowing effect.



SAW Components

B4869

Low Loss Filter for Mobile Communication

157,32 MHz

Data Sheet

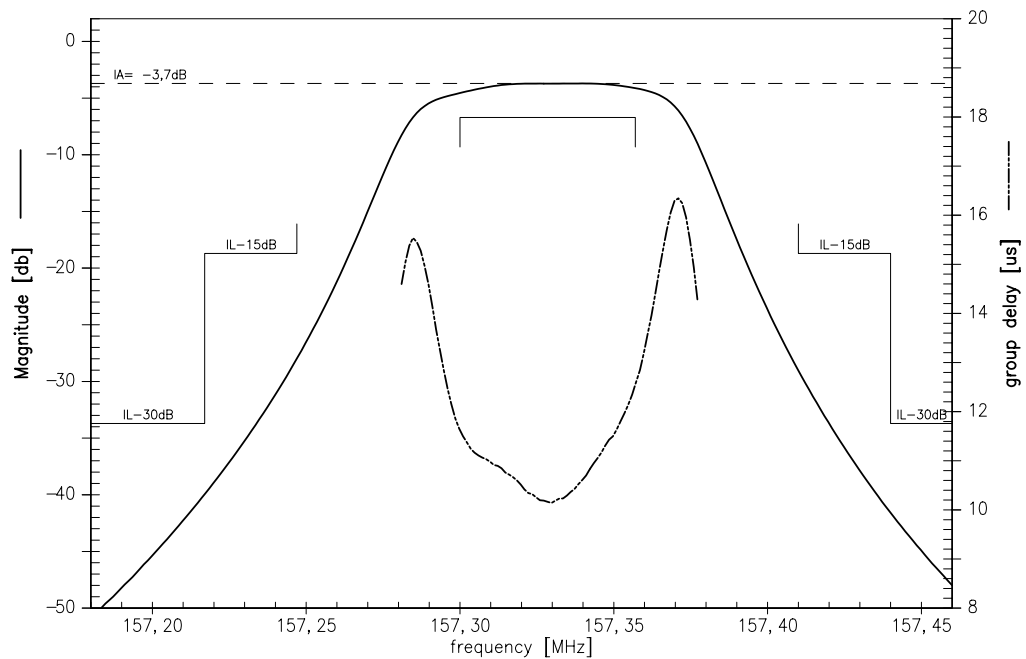
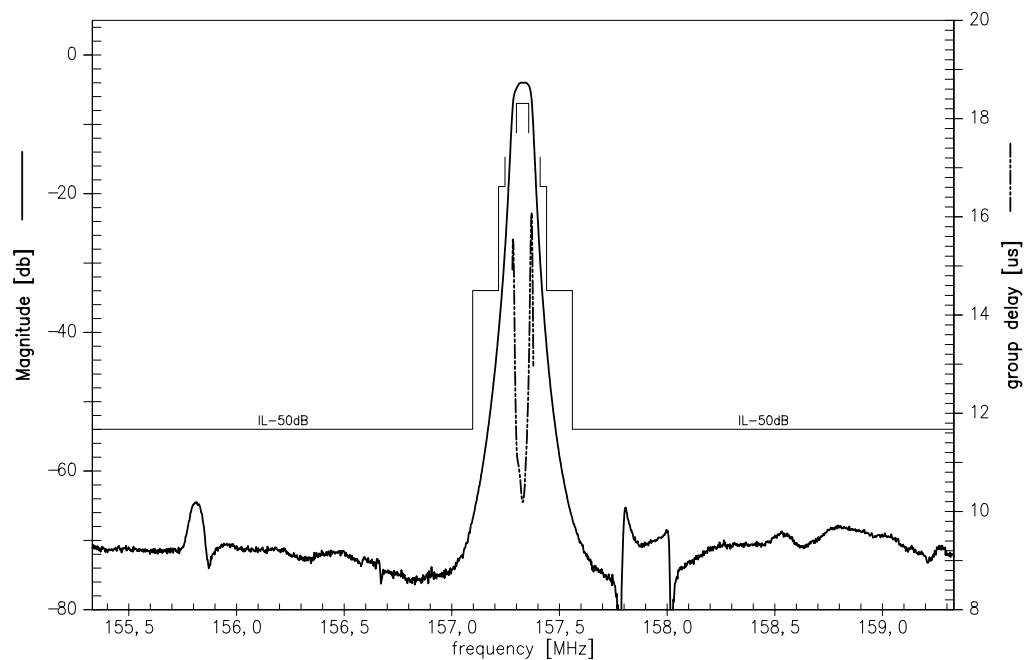


Characteristics

Operating temperature range:	$T = -30^{\circ}\text{C} \dots 85^{\circ}\text{C}$
Terminating source impedance:	$Z_S = 725 \ \Omega \parallel -1,1 \text{ pF}$
Terminating load impedance:	$Z_L = 725 \ \Omega \parallel -1,1 \text{ pF}$

		min.	typ.	max.	
Nominal frequency	f_N	—	157,32	—	MHz
3 dB bandwidth (from f_N)		± 20	—	—	kHz
Minimum insertion attenuation (including losses in the matching network)	α_{\min}	—	3,9	5,0	dB
Group delay ripple (p-p) $f_N - 15,0 \text{ kHz} \dots f_N + 15,0 \text{ kHz}$	$\Delta\tau$	—	2,0	6,0	μs
Relative attenuation (relative to α_{\min})	α_{rel}				
$f_N - 20,0 \text{ kHz} \dots f_N + 20,0 \text{ kHz}$		—	0,5	3,0	dB
$f_N \pm 90,0 \text{ kHz} \dots f_N \pm 120,0 \text{ kHz}$		15	23	—	dB
$f_N \pm 120,0 \text{ kHz} \dots f_N \pm 3,5 \text{ MHz}$		30	35	—	dB
$f_N \pm 3,5 \text{ MHz} \dots f_N \pm 15 \text{ MHz}$		50	66	—	dB
$0,1 \text{ MHz} \dots f_N - 15 \text{ MHz}$		65	90	—	dB
$f_N + 15 \text{ MHz} \dots 300 \text{ MHz}$		65	85	—	dB
$300 \text{ MHz} \dots 500 \text{ MHz}$		55	85	—	dB
$500 \text{ MHz} \dots 1400 \text{ MHz}$		45	48	—	dB
$1400 \text{ MHz} \dots 2500 \text{ MHz}$		15	20	—	dB
Impedance within the passband					
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	$725 \parallel 1,1$	—	$\Omega \parallel \text{pF}$
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	$725 \parallel 1,1$	—	$\Omega \parallel \text{pF}$
Temperature coefficient of frequency ¹⁾	TC_f	—	- 0,036	—	ppm/K ²
Turnover temperature	T_0	—	26	—	$^{\circ}\text{C}$

¹⁾ Temperature dependance of f_c : $f_c(T) = f_c(T_0)(1 + TC_f(T - T_0)^2)$

**SAW Components****B4869****Low Loss Filter for Mobile Communication****157,32 MHz****Data Sheet****Transfer function passband (measured unbalanced / unbalanced)****Transfer function wide band (measured unbalanced / unbalanced)**



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Low Loss Filter for Mobile Communication	157,32 MHz
Data Sheet	SMD

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