

SAW Bandpass Filter – Digital Audio Application *Specification (Rev-1)*

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SAW Bandpass Filter – Europe DAB

Preliminary Specification (Rev 1)

February 7th, 2005

Operating Temperature range : +25°c (+45°c)

Electrical Parameters	Unit	Minimum	Typical	Maximum	
Source Impedance (single ended)	Ω	-	50	-	
Load Impedance (balanced drive)		-	2000 / 3	-	
Center Frequency fo (center between 10dB points)	MHz	38.874	38.912	38.950	
Relative Attenuation α_{rel}					
From 36.27MHz to 37.31MHz (From 36.26MHz to 37.30MHz)	dB	40.0	52.0	-	
From 40.61MHz to 41.41MHz (From 40.60MHz to 41.40MHz)	dB	38.0	46.0	-	
Lower sidelobe (Incl. 2 nd adjacent channel)					
From 30.01MHz to 36.27MHz (From 30.00MHz to 36.26MHz)	dB	43.0	53.0	-	
Upper sidelobe (Incl. 2 nd adjacent channel)					
From 41.41MHz to 50.01MHz (From 41.40MHz to 50.00MHz)	dB	42.0	47.0	-	
Insertion attenuation IL Reference level for the following data 38.922 (38.912)MHz	dB	17.2	18.7	20.2	
Pass bandwidth α _{rel} ≤ 3dB BW _{3dB} α _{rel} ≤ 30dB BW _{30dB}	MHz MHZ	- -	1.5 2.7	- -	
Group delay ripple (p-p) Δτ					
Aperture 50 kHz From 38.12MHz to 39.72MHz (From 38.11MHz to 39.71MHz)	ns	-	35	-	
Reflected Wave Signal Suppression 1.6µs6.0µs after main pulse (test pulse 250ns, carrier frequency 38.922MHz)	dB	42.0	52.0	-	
Temperature coefficient of frequency TC _f	ppm/K	-	-18	-	
Package type			SIP5D		

Maximum Ratings

Rating		Unit	Value
Operable Temperature Range	T_A	-40 to +65	°C
Storage Temperature Range	T_{stg}	-40 to +85	°C
DC Voltage (between any terminals)	V_{DC}	0	V
AC Voltage (between any terminals)	V_{PP}	10	V



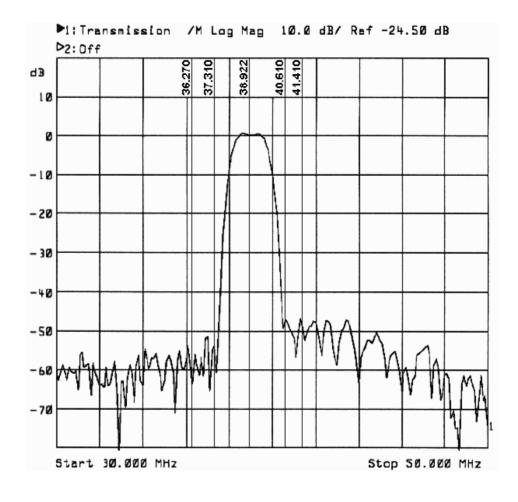


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TYPICAL S21 RESPONSE





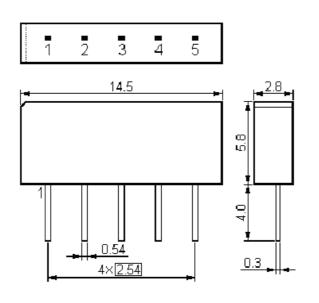


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PACKAGE DRAWING



Pin Configuration

- Input
- 2 Input - ground
- $\frac{1}{3}$ Chip carrier - ground
- Output
- Output

Plastic Package SIP5D Unit: mm

