



SAW Components

Data Sheet X 6855 D

Data Sheet

EP



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X 6855 D

Bandpass Filter

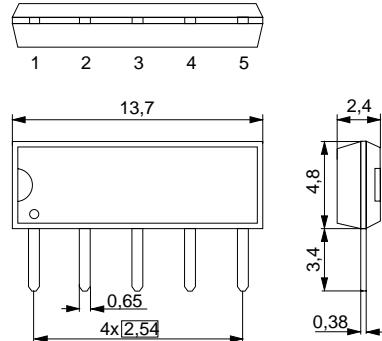
44,00 MHz

Data Sheet

Duroplast package SIP5D

Features

- IF filter for digital TV
- Standard IC package
- Unbalance input option



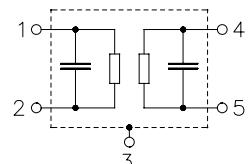
Terminals

- Tinned CuFe alloy

Dimensions in mm, approx. weight 0,5 g

Pin configuration

1	Input
2	Input
3	Chip carrier - ground
4	Output
5	Output



Type	Ordering code	Marking and package according to	Packing according to
X 6855 D	B39440-X6855-N201	C61157-A1-A21	F61074-V8049-Z000

Maximum ratings

Operable temperature range	T_A	-25/+65	°C	
Storage temperature range	T_{stg}	-40/+85	°C	
DC voltage	V_{DC}	5	V	between any terminals
AC voltage	V_{pp}	10	V	between any terminals



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Characteristics							
Reference temperature:		$T_A = 25 (45) ^\circ\text{C}$					
Terminating source impedance:		$Z_S = 50 \Omega$					
Terminating load impedance:		$Z_L = 2 \text{k}\Omega \parallel 3 \text{ pF}$					
			min.	typ.			
Center Frequency (center between 3dB points)	f_c	—	44,00	—			
Insertion attenuation	α						
Reference level for the following data	44,06 (44,00) MHz	15,8	17,3	18,8			
				dB			
Pass bandwidth							
$\alpha_{\text{rel}} \leq 3 \text{ dB}$	$B_{3\text{dB}}$	—	7,9	—			
$\alpha_{\text{rel}} \leq 30 \text{ dB}$	$B_{30\text{dB}}$	—	9,6	—			
Relative attenuation	α_{rel}						
40,53 (40,47) MHz		—	-0,2	—			
47,59 (47,53) MHz		—	1,3	—			
40,06 (40,00) MHz		1,2	2,4	—			
48,06 (48,00) MHz		2,8	4,0	—			
Lower sidelobe							
35,06 ... 38,06 (35,00 ... 38,00) MHz		40,0	46,0	—			
38,06 ... 39,06 (38,00 ... 39,00) MHz		36,0	44,0	—			
Upper sidelobe							
49,06 ... 50,26 (49,00 ... 50,20) MHz		35,0	41,0	—			
50,26 ... 55,06 (50,20 ... 55,00) MHz		40,0	48,0	—			
Reflected wave signal suppression							
1,2 μs ... 6,0 μs after main pulse (test pulse 250 ns, carrier frequency 44,06 MHz)		42,0	54,0	—			
Feedthrough signal suppression							
1,3 μs ... 1,2 μs before main pulse (test pulse 250 ns, carrier frequency 44,06 MHz)		50,0	56,0	—			
Group delay ripple (p-p)	$\Delta\tau$						
40,06 ... 48,06 (40,00 ... 48,00) MHz		—	50	—			
				ns			
Impedance at 44,06 MHz							
Input: $Z_{\text{IN}} = R_{\text{IN}} \parallel C_{\text{IN}}$		—	2,0 \parallel 17,0	—			
Output: $Z_{\text{OUT}} = R_{\text{OUT}} \parallel C_{\text{OUT}}$		—	1,6 \parallel 4,5	—			
Temperature coefficient of frequency	TC_f	—	-72	—			
				ppm/K			



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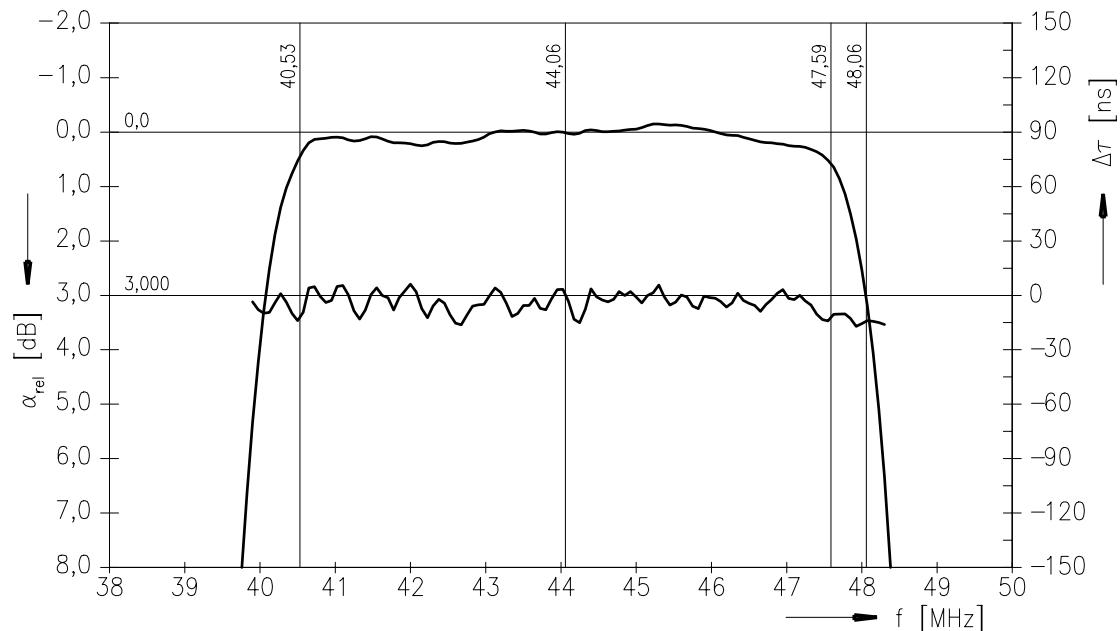
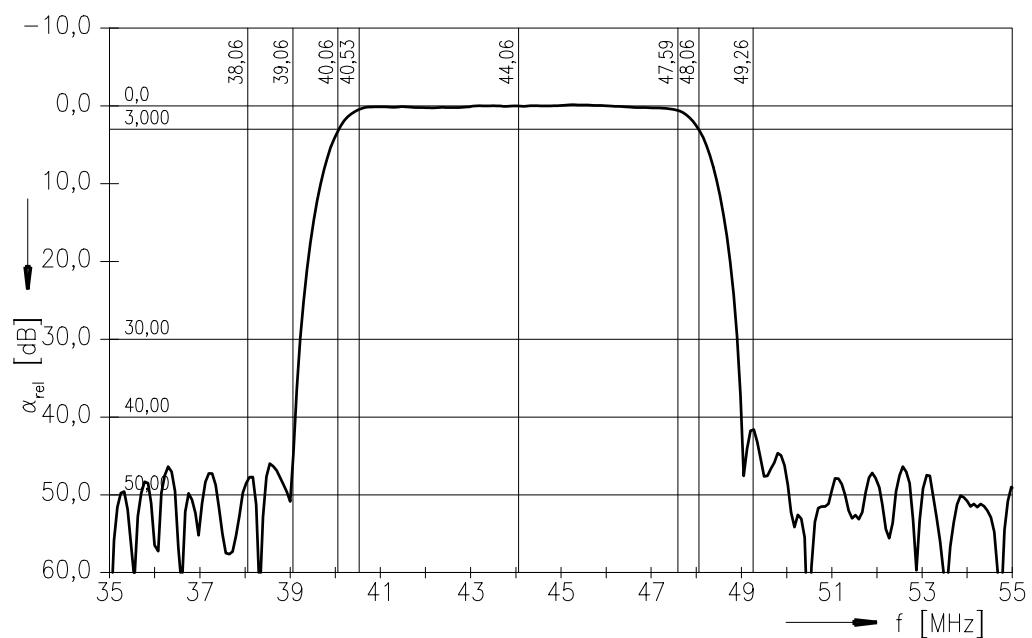
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Frequency response





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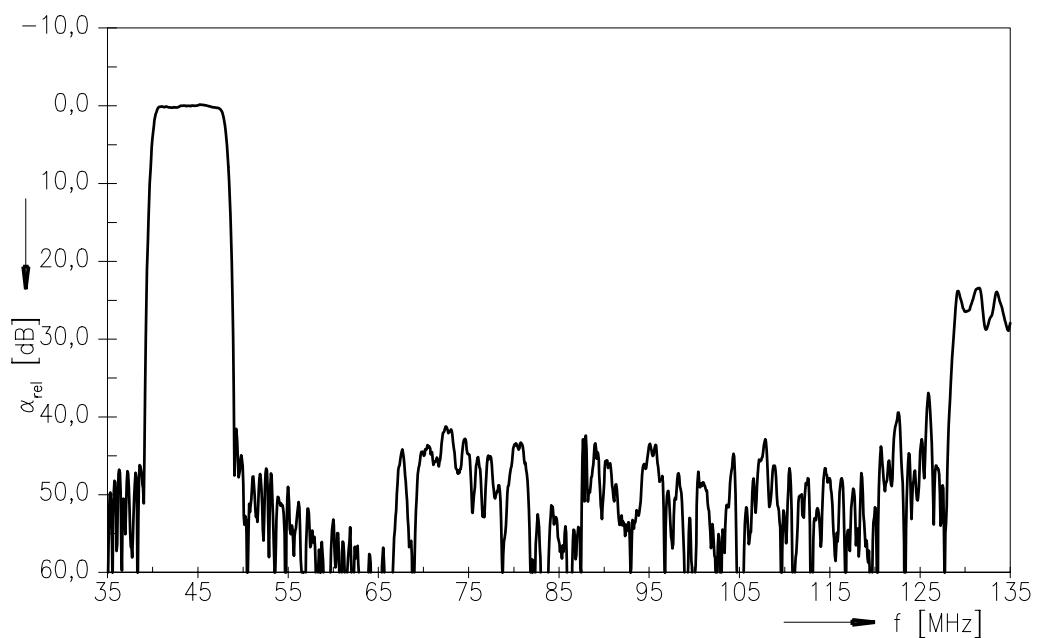
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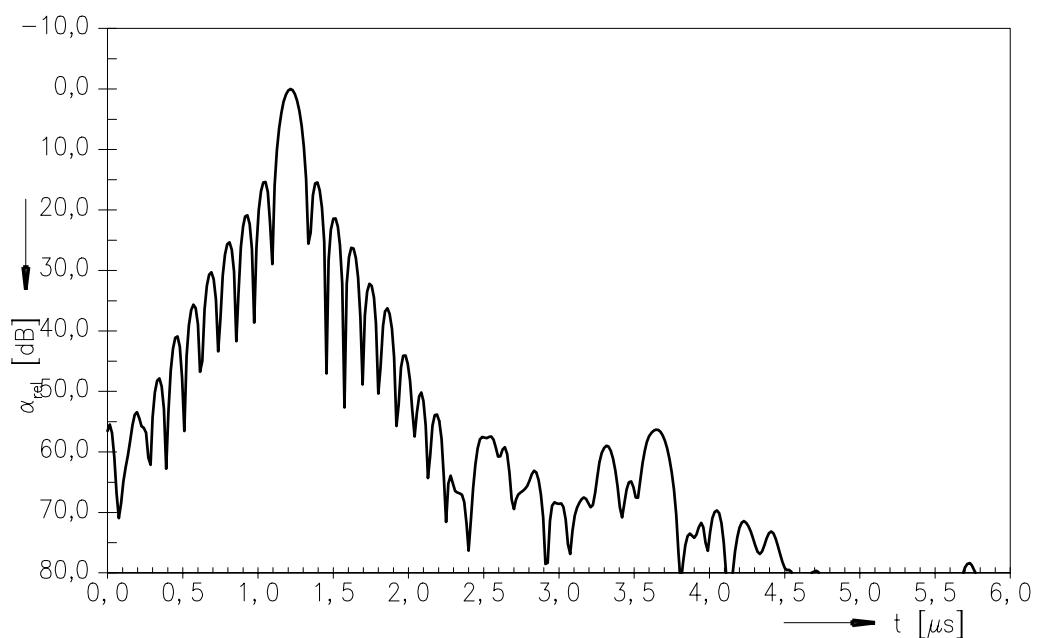
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Frequency response



Time domain response





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