



SAW Components

Data Sheet X 6855 D





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X 6855 D

Bandpass Filter

44,00 MHz

Data Sheet

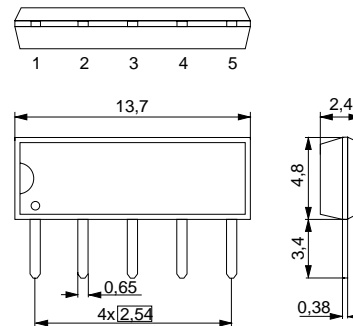
Duroplast package SIP5D

Features

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

Terminals

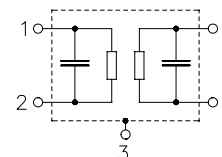
- Tinned CuFe alloy



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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Reference temperature: $T_A = 25 (45) \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega$
 Terminating load impedance: $Z_L = 2 \text{ k}\Omega \parallel 3 \text{ pF}$

		min.	typ.	max.	
Center Frequency (center between 3dB points)	f_c	—	44,00	—	
Insertion attenuation Reference level for the following data	α 44,06 (44,00) MHz	15,8	17,3	18,8	dB
Pass bandwidth $\alpha_{rel} \leq 3 \text{ dB}$	B_{3dB}	—	7,9	—	MHz
$\alpha_{rel} \leq 30 \text{ dB}$	B_{30dB}	—	9,6	—	MHz
Relative attenuation	α_{rel}				
	40,53 (40,47) MHz	—	-0,2	—	dB
	47,59 (47,53) MHz	—	1,3	—	dB
	40,06 (40,00) MHz	1,2	2,4	—	dB
	48,06 (48,00) MHz	2,8	4,0	—	dB
Lower sidelobe					
	35,06 ... 38,06 (35,00 ... 38,00) MHz	40,0	46,0	—	dB
	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	—	dB
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	—	dB
Group delay ripple (p-p) 40,06 ... 48,06 (40,00 ... 48,00) MHz	$\Delta\tau$	—	50	—	ns
Impedance at 44,06 MHz					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	2,0 \parallel 17,0	—	k Ω \parallel pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	1,6 \parallel 4,5	—	k Ω \parallel pF
Temperature coefficient of frequency	TC_f	—	-72	—	ppm/K



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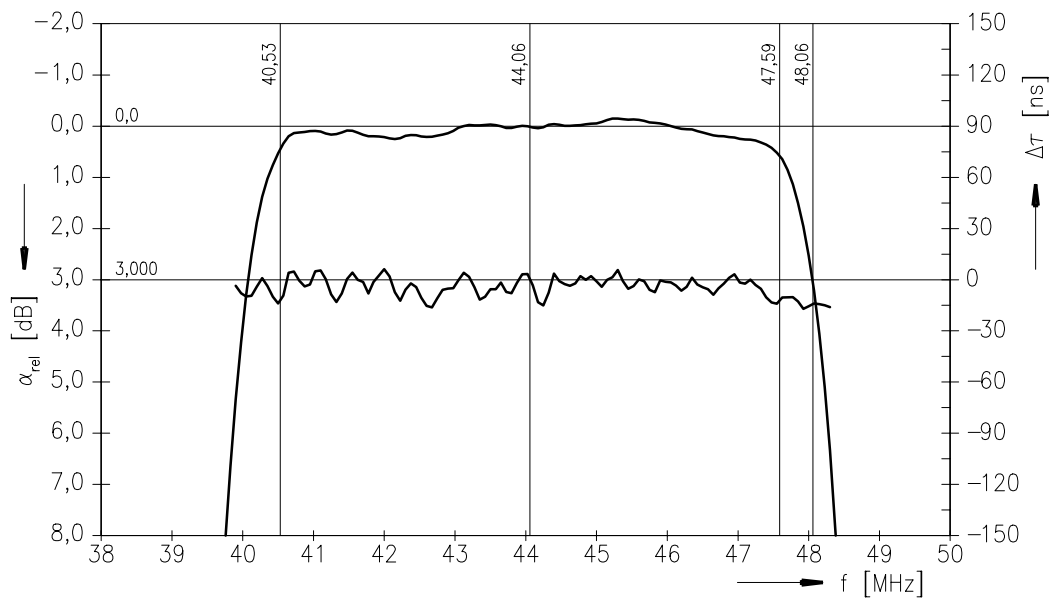
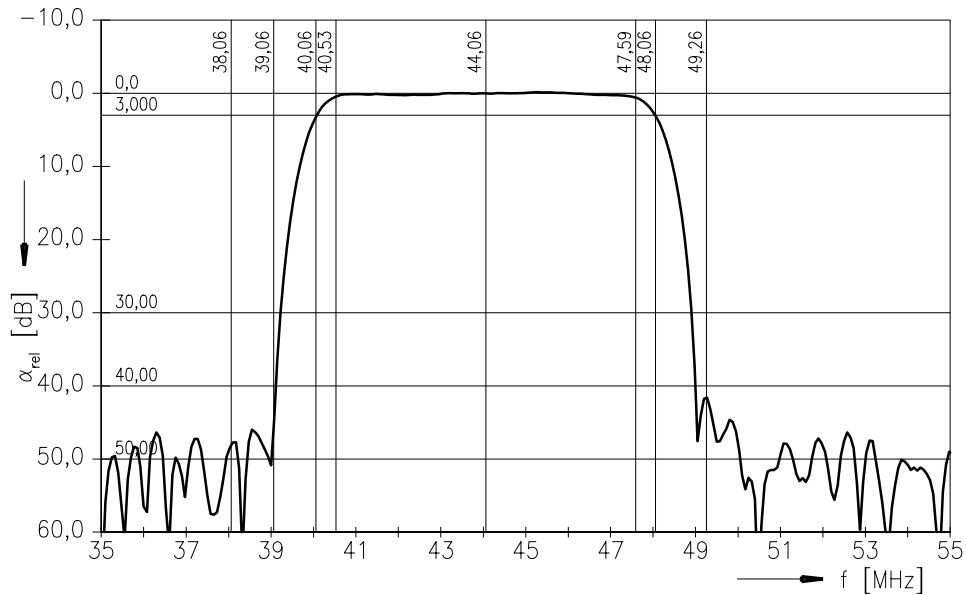
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Frequency response





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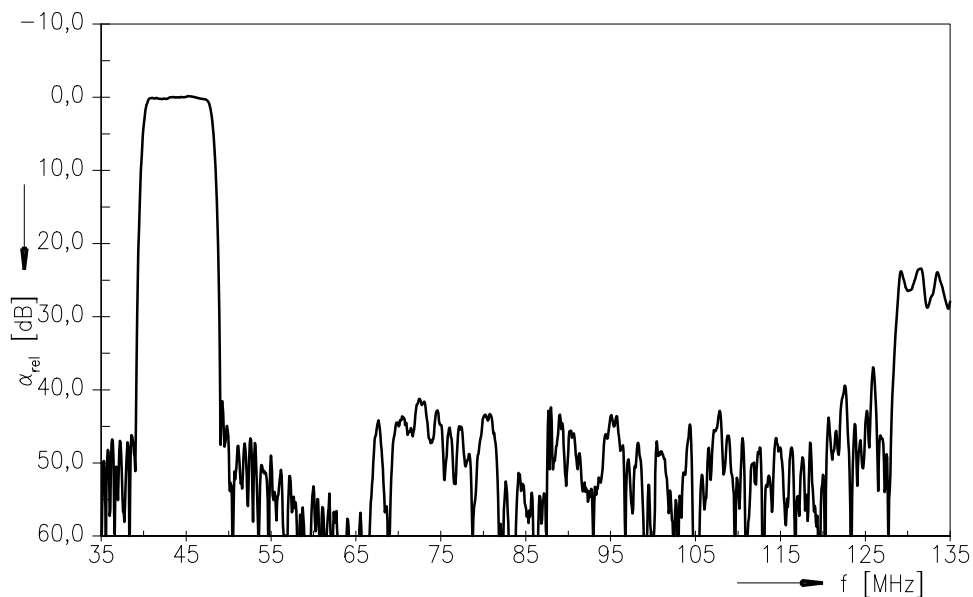
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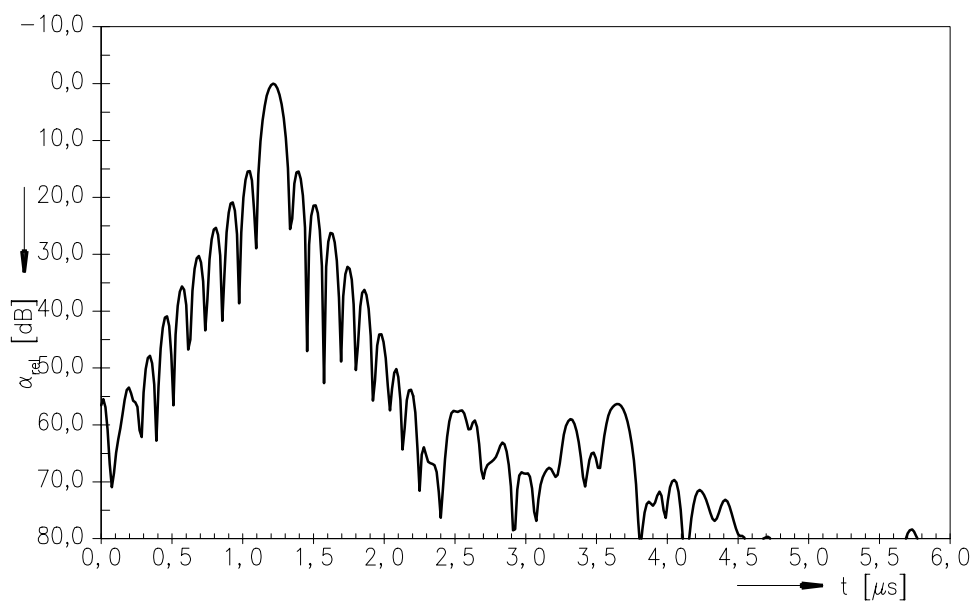
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Frequency response



Time domain response





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