

SAW Components

Data Sheet X 6855 M





SAW Components	X 6855 M
Bandpass Filter	44,00 MHz

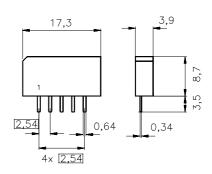
Data Sheet

Plastic package SIP5K



Terminals

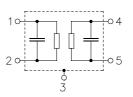
■ Tinned CuFe alloy



Dimensions in mm, approx. weight 1,0 g

Pin configuration

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



Туре	Ordering code		Packing according to		
X 6855 M	B39440-X6855-M100	C61157-A1-A15	F61074-V8067-Z000		

Maximum ratings

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



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Characteristics

Reference temperature: $T_{\rm A}=25~(45)~^{\circ}{\rm C}$ Terminating source impedance: $Z_{\rm S}=50~\Omega$ Terminating load impedance: $Z_{\rm L}=2~{\rm k}\Omega~||~3~{\rm pF}$

		min.	typ.	max.	
Center frequency	f _C	_	44,00	_	MHz
(center between 3 dB points)					
Insertion attenuation	α				
Reference level for the 44,06 (44,00) MHz		14,7	16,2	17,7	dB
following data					
Pass bandwidth					
$\alpha_{rel} \leq 3dB$	B_{3dB}	_	8,0	_	MHz
$\alpha_{\text{rel}} \leq 30 \text{dB}$	B _{30dB}		9,6	_	MHz
Relative attenuation	α_{rel}				
40,53 (40,47) MHz		_	0,3	_	dB
47,59 (47,53) MHz		<u> </u>	0,5	_	dB
40,06 (40,00) MHz		1,7	2,9	4,1	dB
48,06 (48,00) MHz		1,9	3,1	4,3	dB
Lower sidelobe		40.0	40.0		
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	41,0	_	dB
Upper sidelobe 49,26 55,06 (49,20 55,00) MHz		40,0	46,0		dB
49,20 33,00 (49,20 33,00) WHIZ		40,0	40,0	_	ub
Reflected wave signal suppression					
1,2 μs 6,0 μs after main pulse		42,0	54,0	_	dB
(test pulse 250 ns,					
carrier frequency 44,06 MHz)					
Feedthrough signal suppression					
1,3 μs 1,2 μs before main pulse		50,0	56,0	_	dB
(test pulse 250 ns,					
carrier frequency 44,06 MHz)					
Group delay ripple (p-p)	Δau				
40,06 48,06 (40,00 48,00) MHz		_	40	_	ns
Impedance at 44,06 MHz					
Input: $Z_{IN} = R_{IN} C_{IN}$		_	1,5 16,8	_	$k\Omega \parallel pF$
Output: $Z_{OUT} = R_{OUT} C_{OUT}$		_	1,3 5,6	_	k $\Omega \parallel$ pF
Temperature coefficient of frequency	TC_{f}	_	-72	_	ppm/K



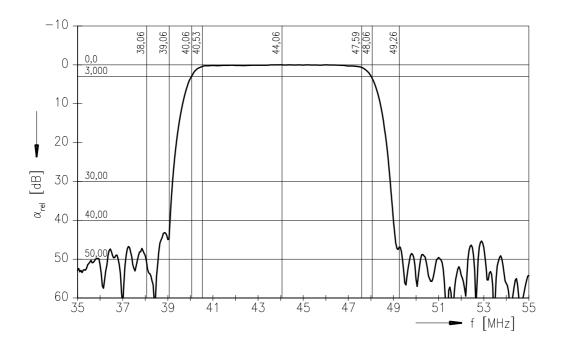
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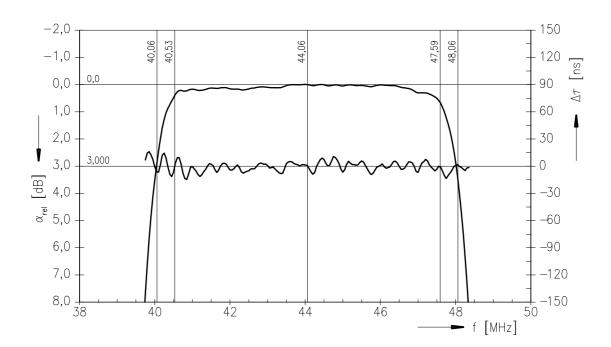
Bandpass Filter

44,00 MHz

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Frequency response







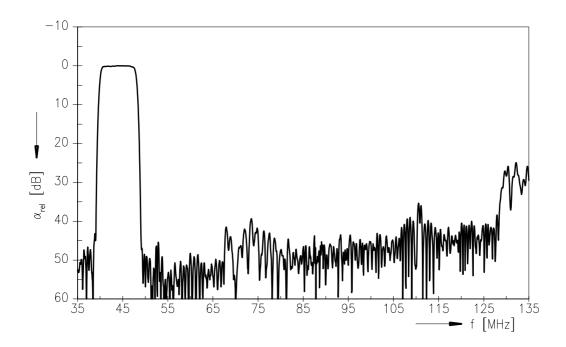
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Bandpass Filter

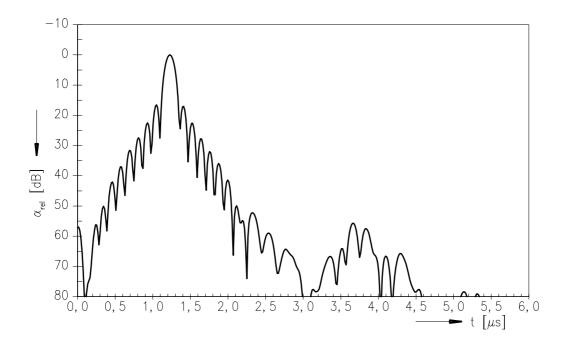
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Frequency response



Time domain response





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