



SAW Components

Data Sheet B 619

Data Sheet

An abstract, grayscale graphic featuring a stylized, three-dimensional representation 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 globe or a stylized wave. The background is dark and textured, with light reflecting off the surfaces of the logo.



SAW Components

B 619

Satellite Receiver Filter

479,50 MHz

Data Sheet

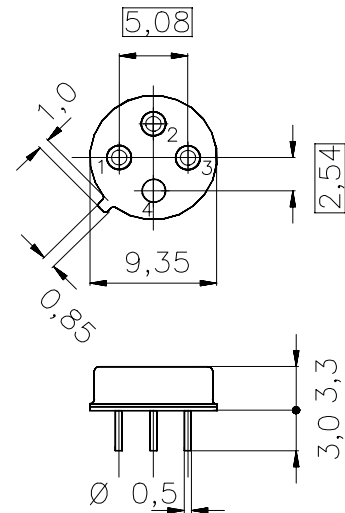
Features

- Two-channel satellite receiver filter
- IF filter for DSB receivers
- Constant group delay

Terminals

- Gold-plated NiFeCo alloy

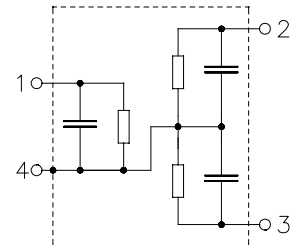
Metal package TO 39



Dimensions in mm, approx. weight 1,0 g

Pin configuration

1	Input	(Output)
2	Output 2	(Input 2)
3	Output 1	(Input 1)
4	Ground	



Type	Ordering code	Marking and Package according to	Packing according to
B 619	B39481-B 619-B210	C61157-A7-A29	F61064-V8011-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_A	-25/+85	°C	
Storage temperature range	T_{stg}	-40/+85	°C	
DC voltage	V_{DC}	0	V	between any terminals
AC voltages	V_{pp}	5	V	between any terminals



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Characteristics of channel 1

Reference temperature:	$T_A = 25\text{ °C}$
Terminating source impedance:	$Z_S = 50\ \Omega$
Terminating load impedance:	$Z_L = 50\ \Omega$
Group delay aperture	0,25MHz

		min.	typ.	max.	
Insertion attenuation	479,50 MHz α	—	22,1	24,5	dB
Reference level for the following data					
Center frequency	f_c	478,50	479,50	480,50	MHz
Pass bandwidth	$\alpha_{rel} \leq 3\text{ dB } B_{3dB}$	—	27,0	—	MHz
Relative attenuation	α_{rel}				
	466,00 MHz	—	3,2	5,0	dB
	493,00 MHz	—	3,5	5,0	dB
Lower sidelobe	430,00 ... 455,00 MHz	34,0	39,0	—	dB
Upper sidelobe	504,00 ... 530,00 MHz	34,0	39,0	—	dB
Reflected wave signal suppression					
0,135 μ s ... 2,0 μ s after main pulse		40,0	45,0	—	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
	471,00 ... 488,00 MHz	—	0,3	0,5	dB
Group delay ripple (p-p)	$\Delta\tau$				
	466,00 ... 493,00 MHz	—	10	18	ns
Impedance at 479,50 MHz					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	200 \parallel 3,6	—	$\Omega \parallel$ pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	240 \parallel 3,9	—	$\Omega \parallel$ pF
Temperature coefficient of frequency	TC_f	—	– 86	—	ppm/K



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Characteristics of channel 2

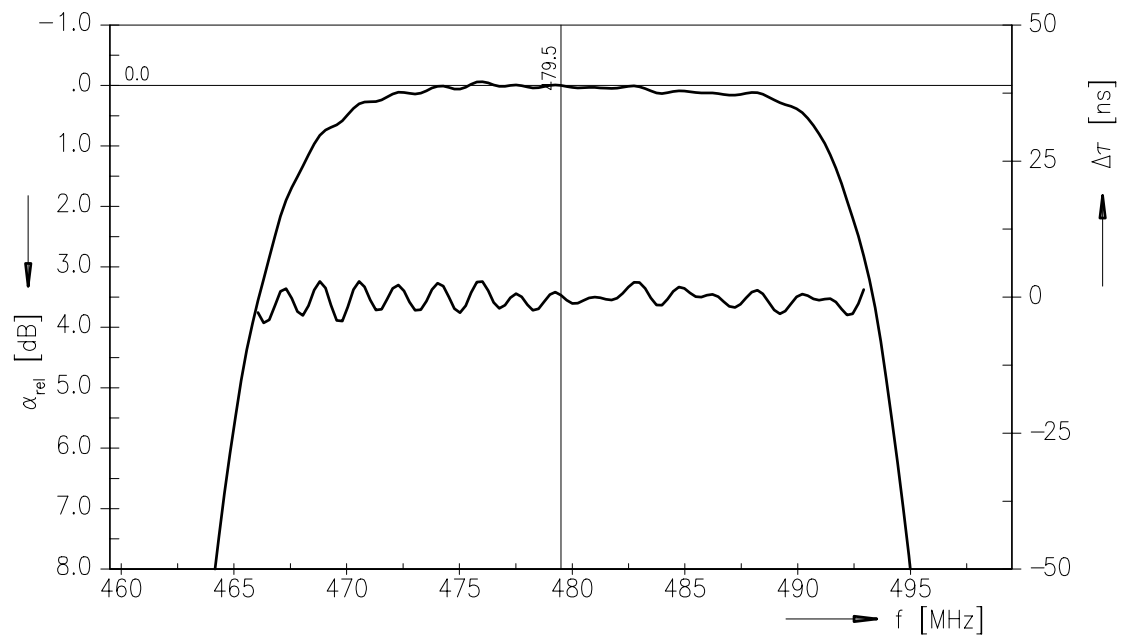
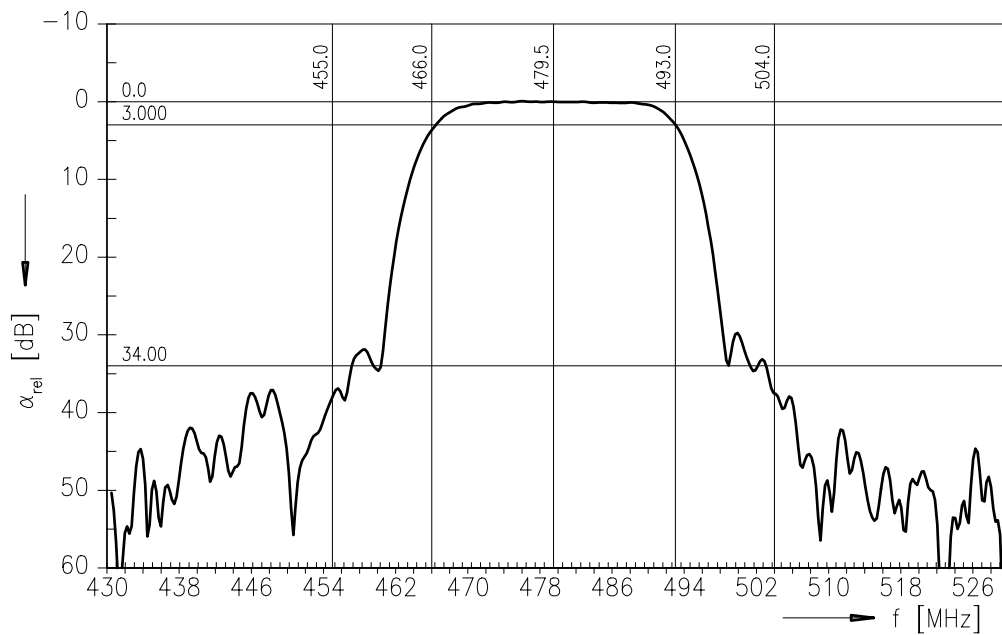
Reference temperature:	$T_A = 25\text{ °C}$
Terminating source impedance:	$Z_S = 50\ \Omega$
Terminating load impedance:	$Z_L = 50\ \Omega$
Group delay aperture	0,25MHz

		min.	typ.	max.	
Insertion attenuation	479,50 MHz α	—	22,7	23,6	dB
Reference level for the following data					
Center frequency	f_c	478,50	479,50	480,50	MHz
Pass bandwidth	$\alpha_{rel} \leq 3\text{ dB } B_{3dB}$	—	36,0	—	MHz
Relative attenuation	α_{rel}				
	461,50 MHz	—	3,5	4,8	dB
	497,50 MHz	—	2,3	4,8	dB
Lower sidelobe	430,00 ... 449,00 MHz	34,0	39,0	—	dB
Upper sidelobe	510,00 ... 530,00 MHz	30,0	36,0	—	dB
Reflected wave signal suppression					
0,13 μ s ... 2,0 μ s after main pulse		40,0	45,0	—	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
	468,50 ... 490,50 MHz	—	0,3	0,5	dB
Group delay ripple (p-p)	$\Delta\tau$				
	461,50 ... 497,50 MHz	—	12	18	ns
Impedance at 479,50 MHz					
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	360 2,5	—	$\Omega \parallel \text{pF}$
Temperature coefficient of frequency	TC_f	—	– 86	—	ppm/K



Data Sheet

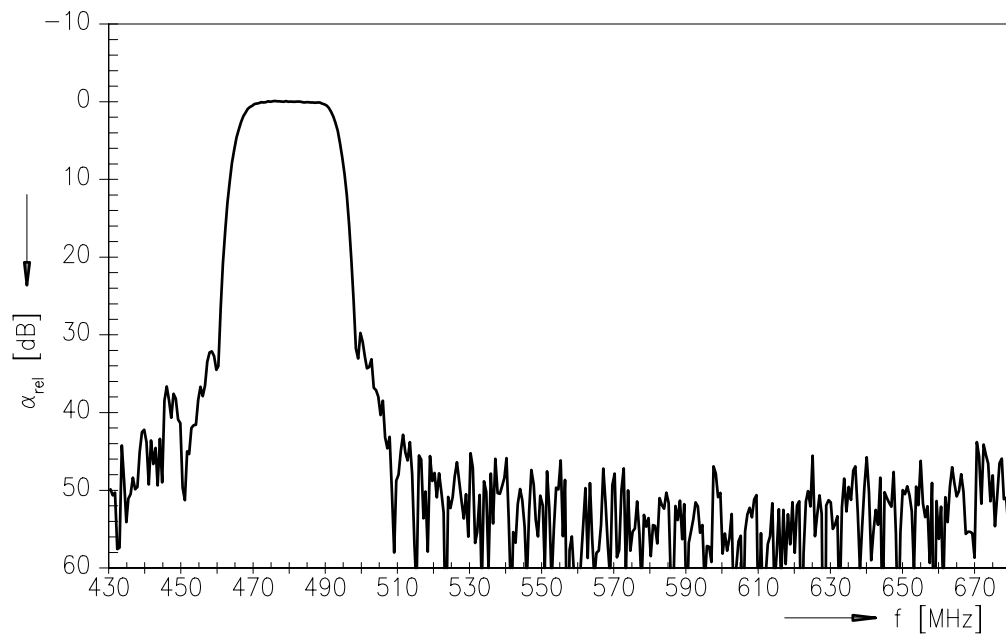
Frequency response



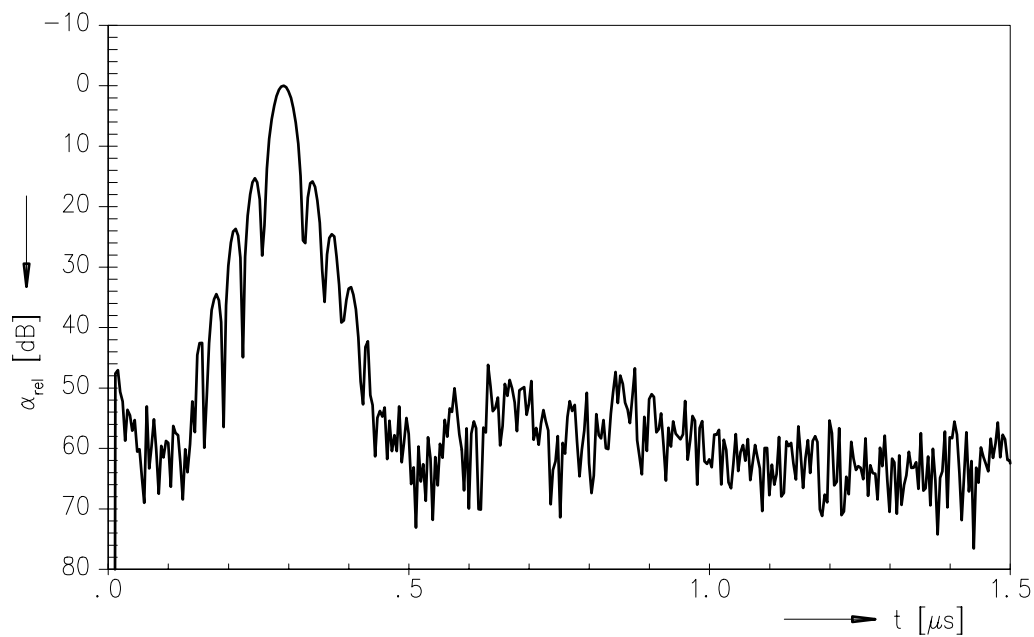


Data Sheet

Frequency response



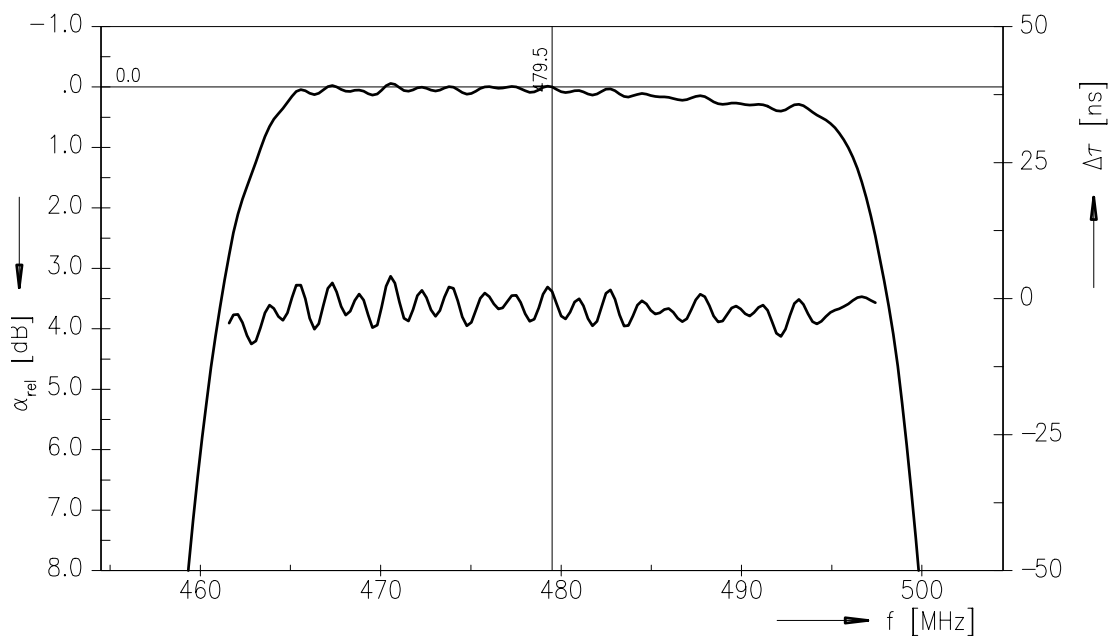
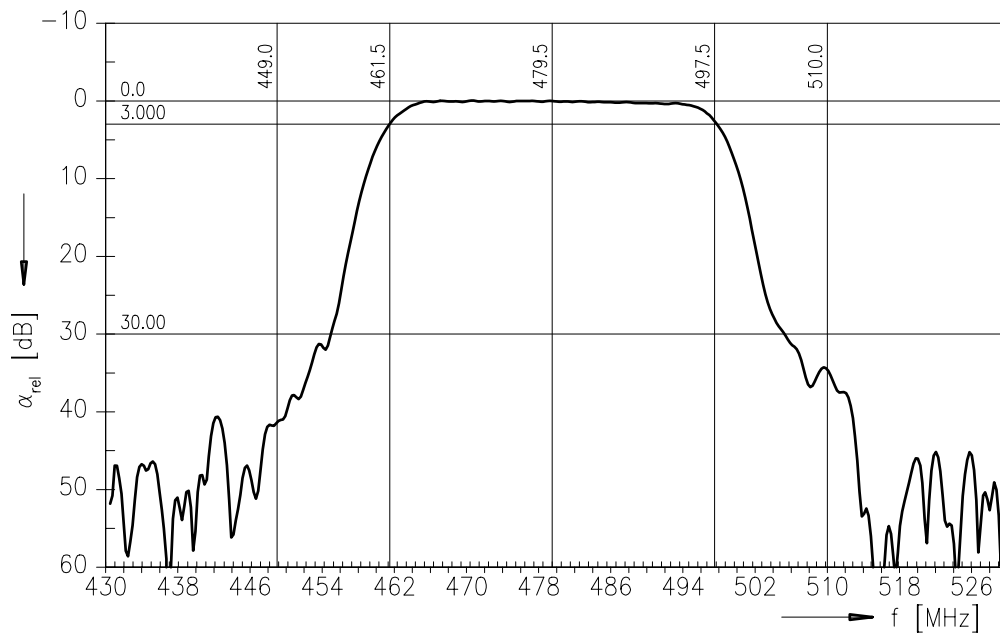
Time domain response





Data Sheet

Frequency response





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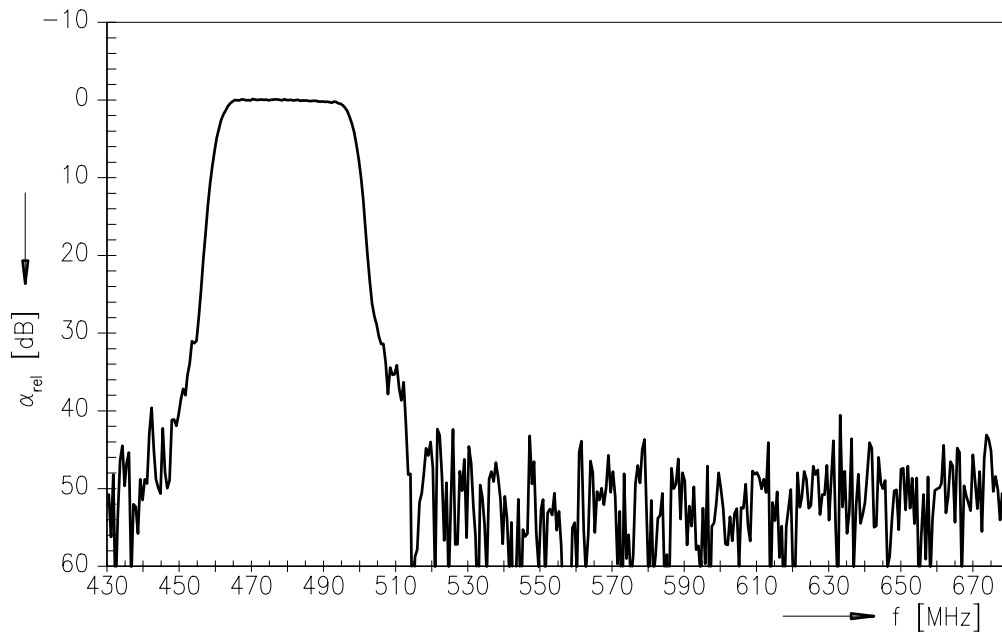
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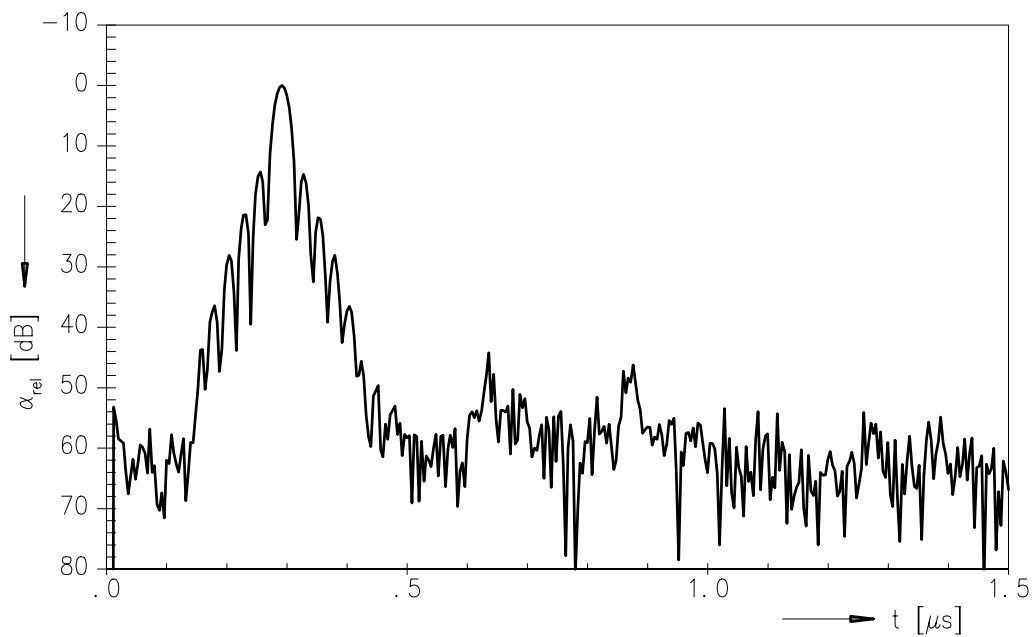
479,50 MHz

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Frequency response



Time domain response





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