



SAW Components

Data Sheet B 801

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, 3D letters. The letters are white with a bright, circular highlight in the center of each, giving them a three-dimensional appearance. They are set against a dark, textured background that includes a faint, glowing globe and circuitry patterns, suggesting a high-tech or electronic theme.



SAW Components

B 801

Satellite Receiver Filter

479,50 MHz

Data Sheet

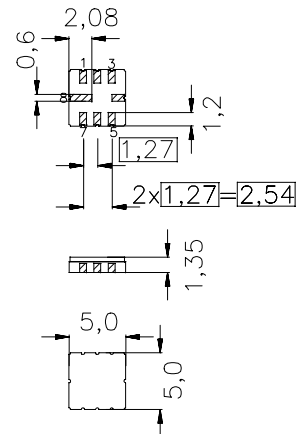
Ceramic package **QCC8C**

Features

- Two-channel satellite receiver filter
- IF filter for DSB receivers
- Constant group delay
- Ceramic package for **Surface Mounted Technology (SMT)**

Terminals

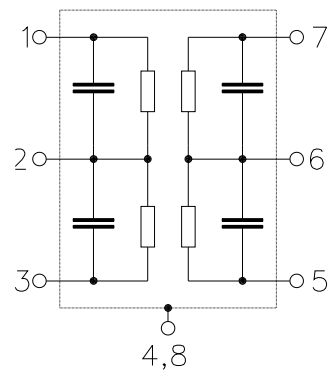
- Ni, gold plated



Dimensions in mm, approx. weight 0,1 g

Pin configuration

- | | |
|-----|---------------------------------|
| 1 | Input channel 2 |
| 2 | Input ground |
| 3 | Input channel 1 |
| 5 | Output ground channel 2 |
| 6 | Output |
| 7 | Ground, output ground channel 1 |
| 4,8 | Case ground |



Type	Ordering code	Marking and Package according to	Packing according to
B 801	B39481-B801-U310	C61157-A7-A56	F61074-V8169-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

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



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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	—	22,3	25	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	—	2,8	4,5	dB
	493,00 MHz	—	3,0	4,5	dB
Lower sidelobe	430,00 ... 452,00 MHz	36,0	41,0	—	dB
Upper sidelobe	507,00 ... 530,00 MHz	34,0	39,0	—	dB
Reflected wave signal suppression					
0,14 μ s ... 2,0 μ s after main pulse		40,0	49,0	—	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
	471,00 ... 488,00 MHz	—	0,3	0,6	dB
Group delay ripple (p-p)	$\Delta\tau$				
	466,00 ... 493,00 MHz	—	11	18	ns
Impedance at 479,50 MHz					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	0,67 3,2	—	k Ω pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	0,06 5,6	—	k Ω pF
Temperature coefficient of frequency	TC_f	—	– 86	—	ppm/K



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Characteristics of channel 2

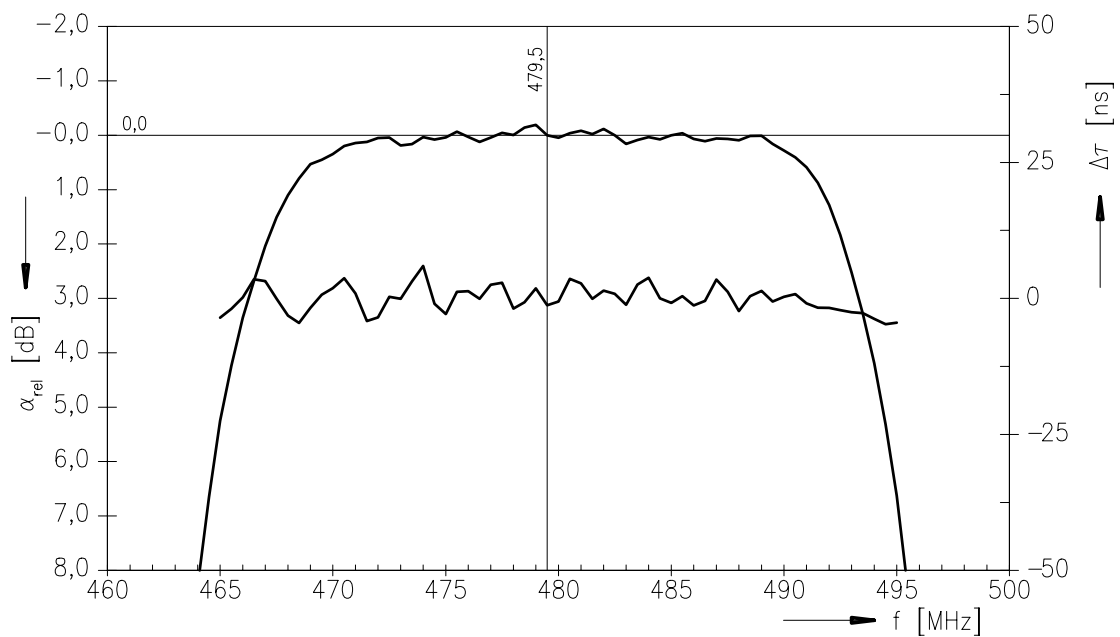
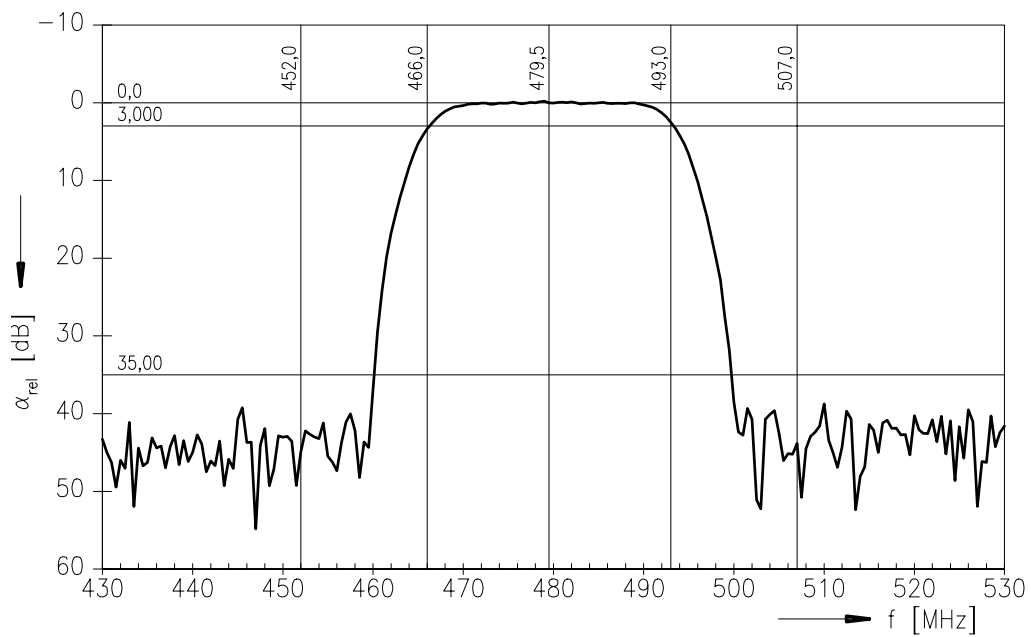
Reference temperature:	$T_A = 25\text{ °C}$
Terminating source impedance:	$Z_S = 50\ \Omega$
Terminating load impedance:	$Z_L = 50\ \Omega$
Group delay aperture	0,25MHz

		min.	typ.	max.	
Insertion attenuation	479,50 MHz α	—	22,3	25	dB
Reference level for the following data					
Center frequency	f_c	478,50	479,50	480,50	MHz
Pass bandwidth	$\alpha_{rel} \leq 3\text{ dB } B_{3dB}$	—	18,0	—	MHz
Relative attenuation	α_{rel}				
	470,50 MHz	—	2,9	4,7	dB
	488,50 MHz	—	2,9	4,4	dB
Lower sidelobe	430,00 ... 457,50 MHz	36,0	43,0	—	dB
Upper sidelobe	500,50 ... 530,00 MHz	34,0	41,0	—	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)	$\Delta\alpha$				
	476,00 ... 483,00 MHz	—	0,2	0,6	dB
Group delay ripple (p-p)	$\Delta\tau$				
	470,50 ... 488,50 MHz	—	11	18	ns
Impedance at 479,50 MHz					
Input: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	0,59 3,5	—	k Ω pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	0,06 5,6	—	k Ω pF
Temperature coefficient of frequency	TC_f	—	– 86	—	ppm/K



Data Sheet

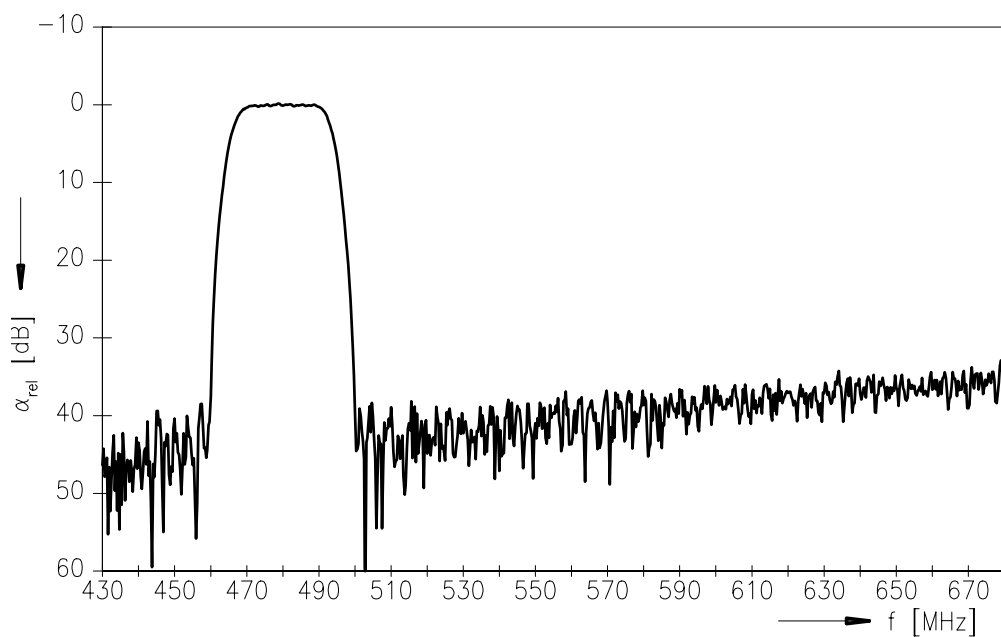
Frequency response of channel 1



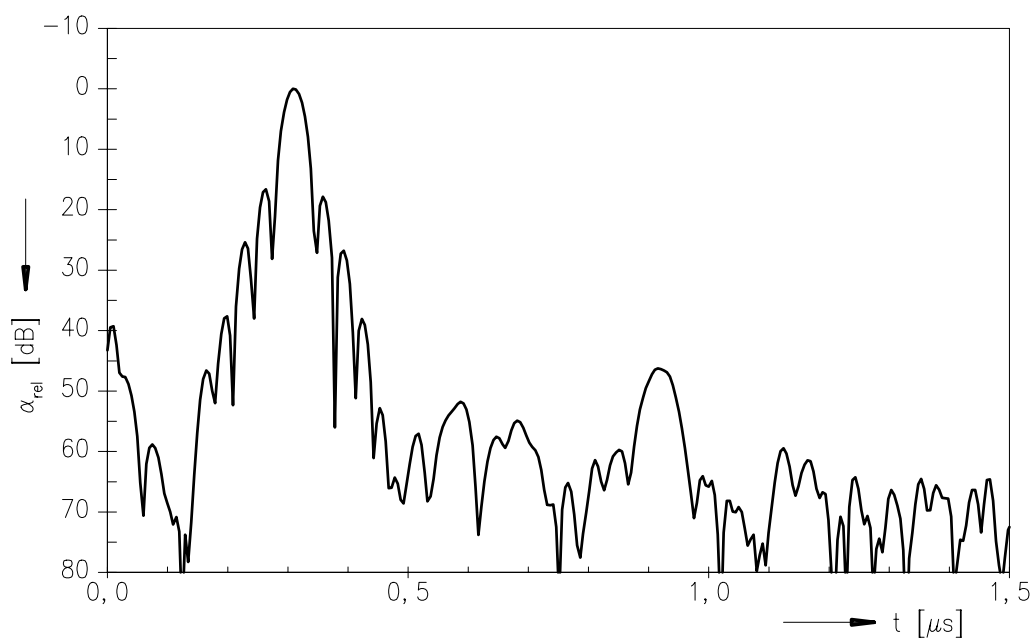


Data Sheet

Frequency response of channel 1



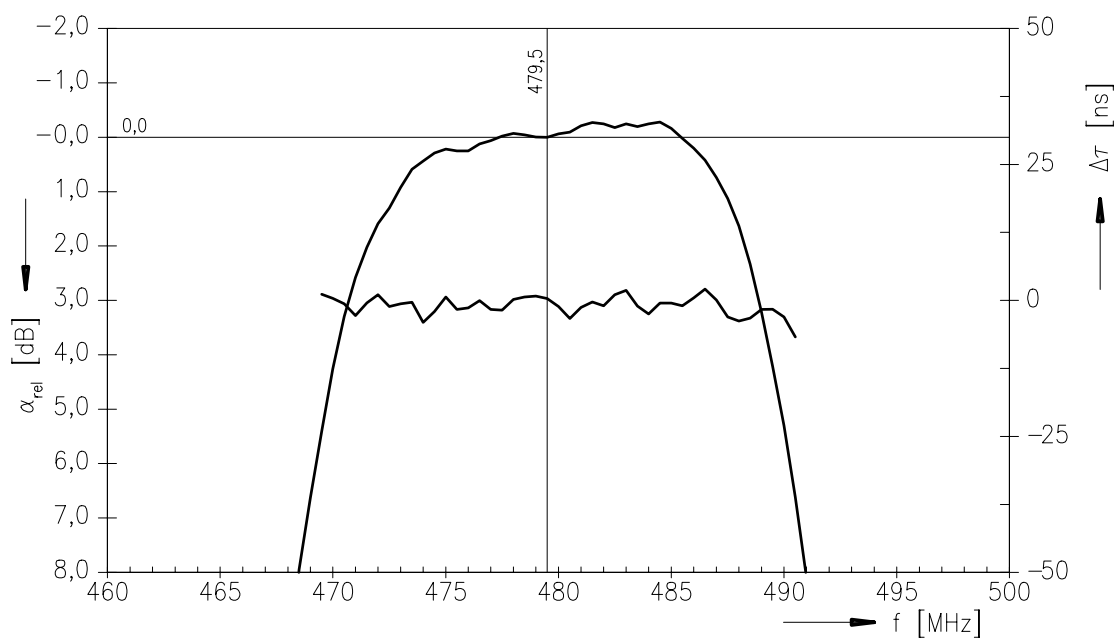
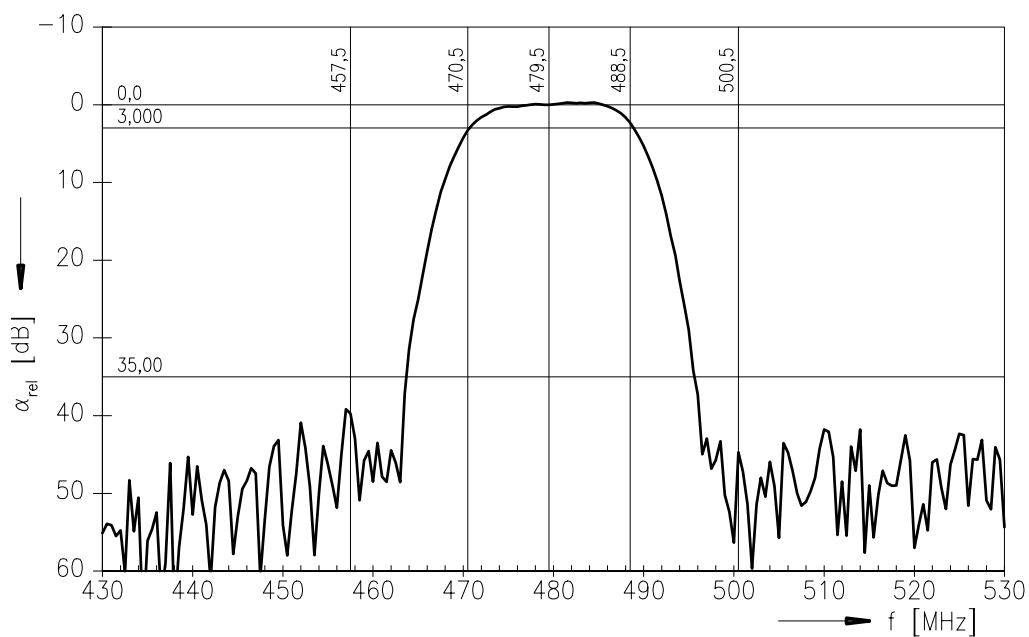
Time domain response of channel 1





Data Sheet

Frequency response of channel 2





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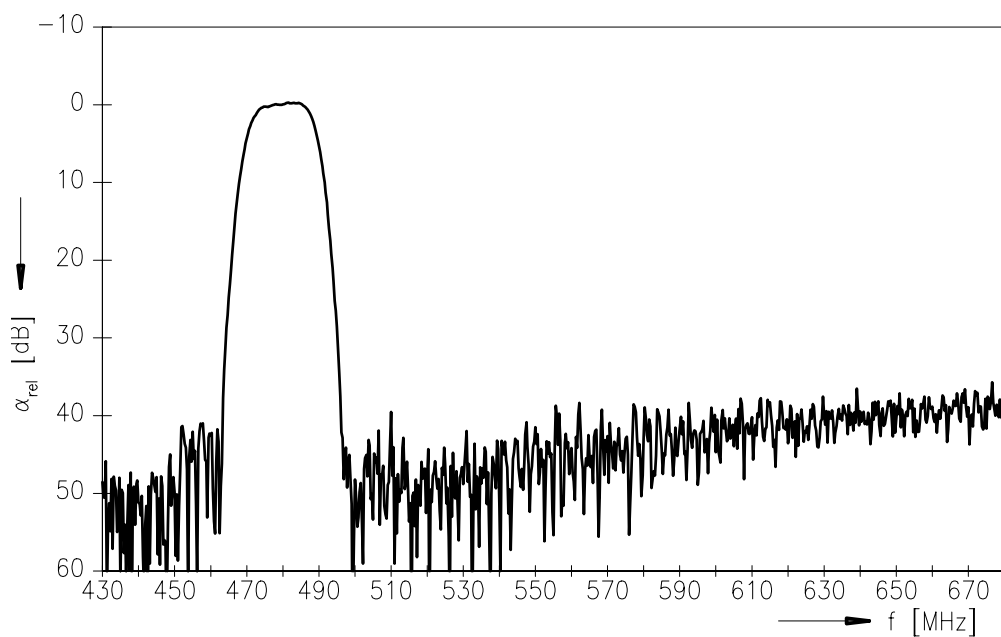
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Satellite Receiver Filter

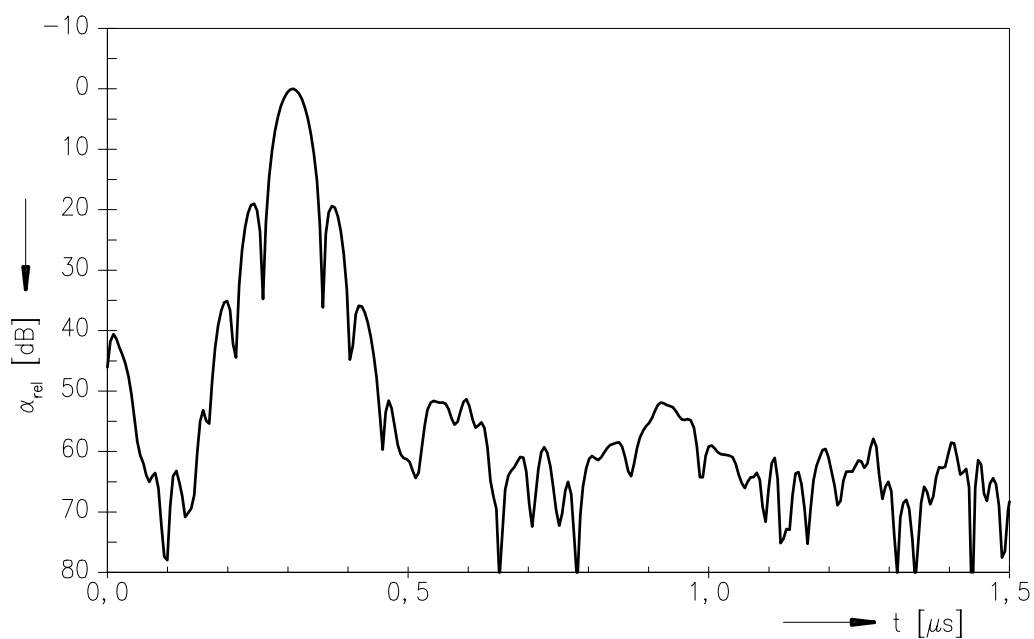
479,50 MHz

Data Sheet

Frequency response of channel 2



Time domain response of channel 2





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