



SAW Components

Data Sheet B 801





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B 801

Satellite Receiver Filter

479,50 MHz

Data Sheet

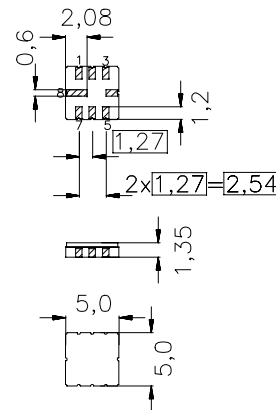
Ceramic package QCC8C

Features

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

Terminals

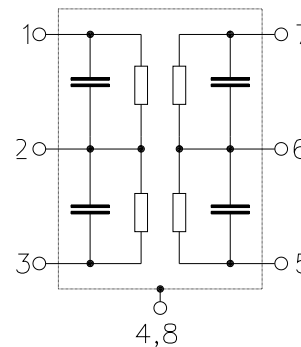
- Ni, gold plated



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	
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: $T_A = 25\text{ }^\circ\text{C}$
 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 μs ... 2,0 μs 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

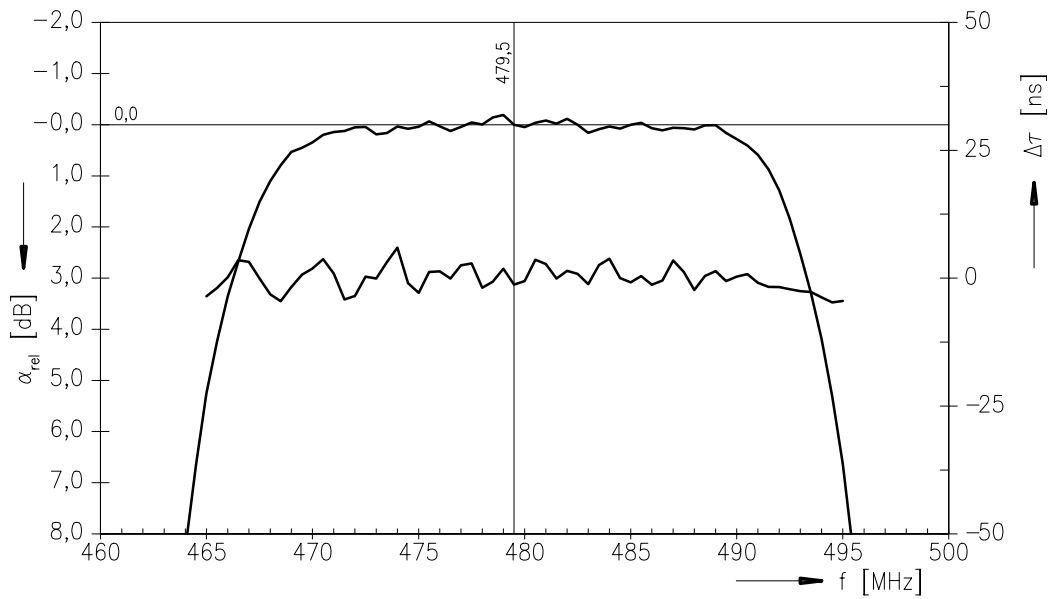
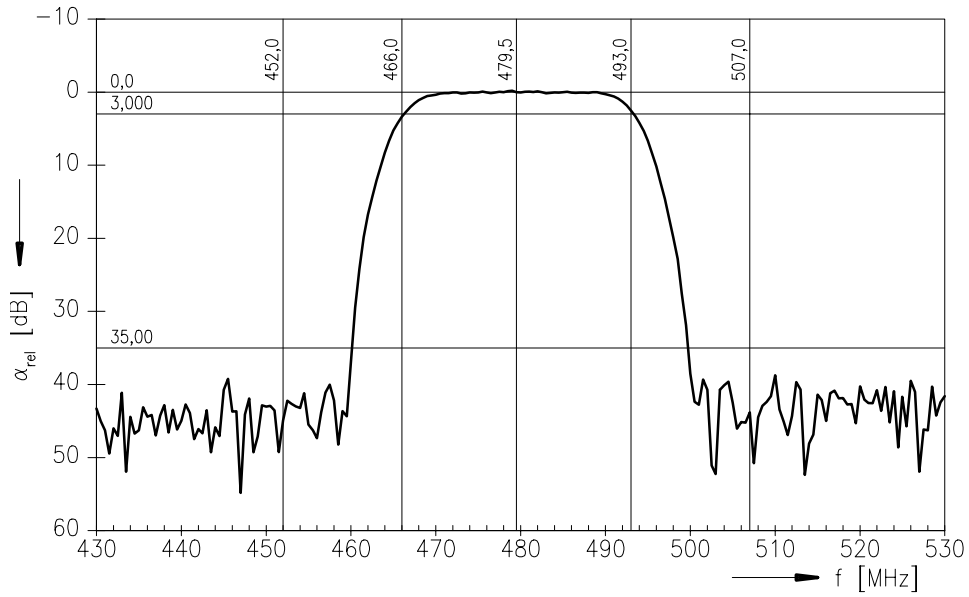
Reference temperature: $T_A = 25\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$
 Group delay aperture: 0,25MHz

			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		$\alpha_{rel} \leq 3\text{ dB}$		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

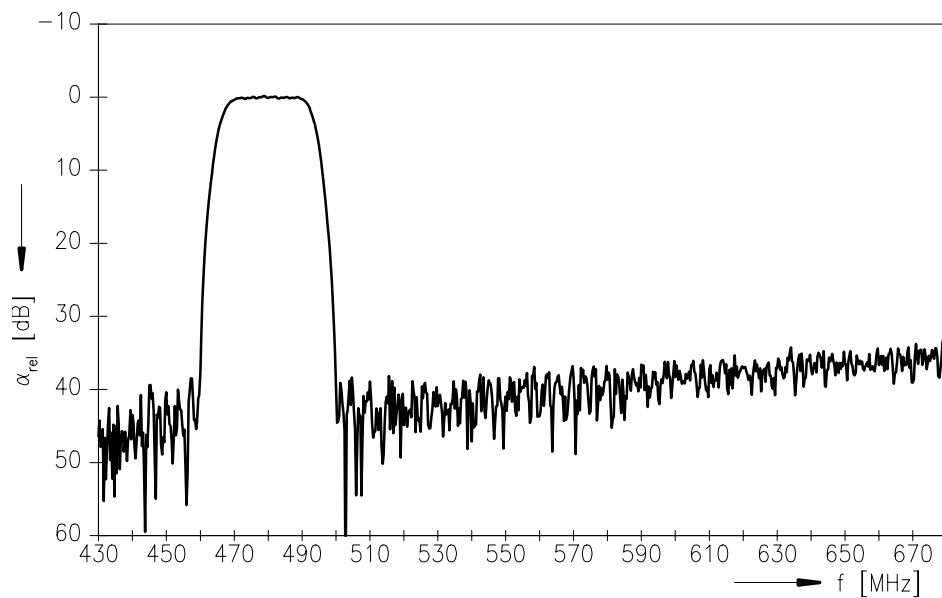
Frequency response of channel 1



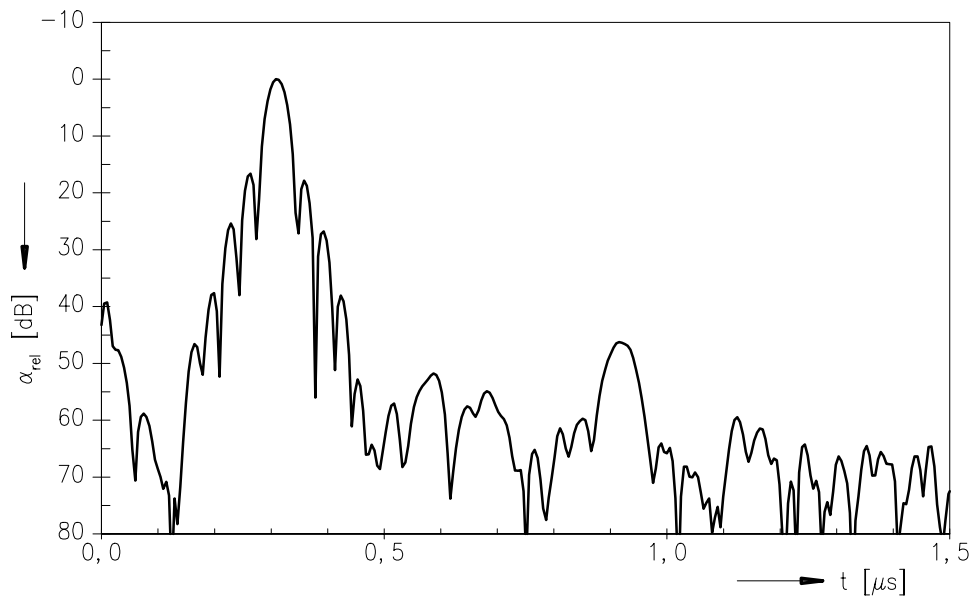


Data Sheet

Frequency response of channel 1



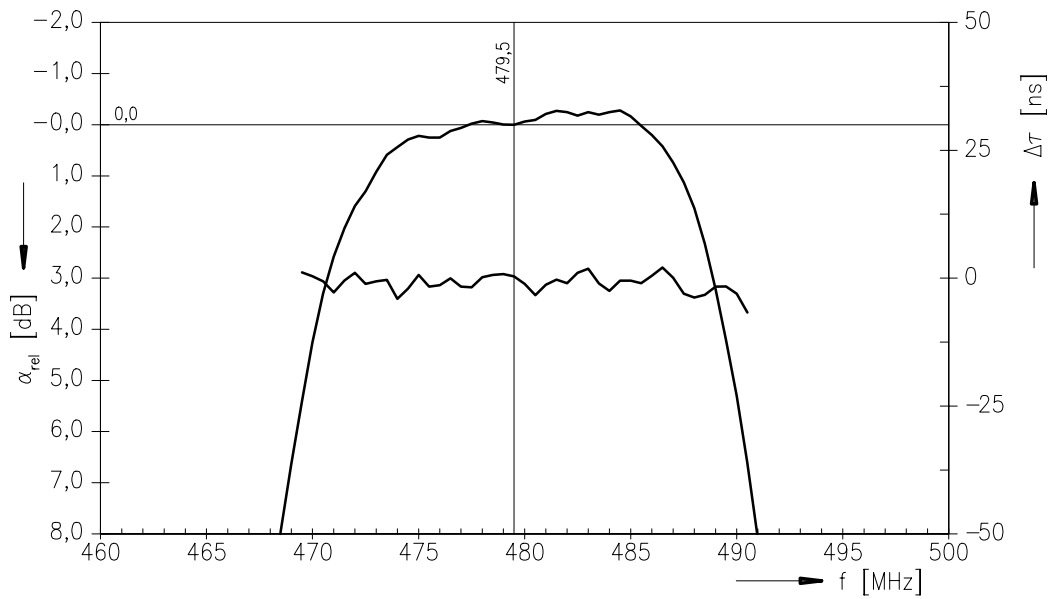
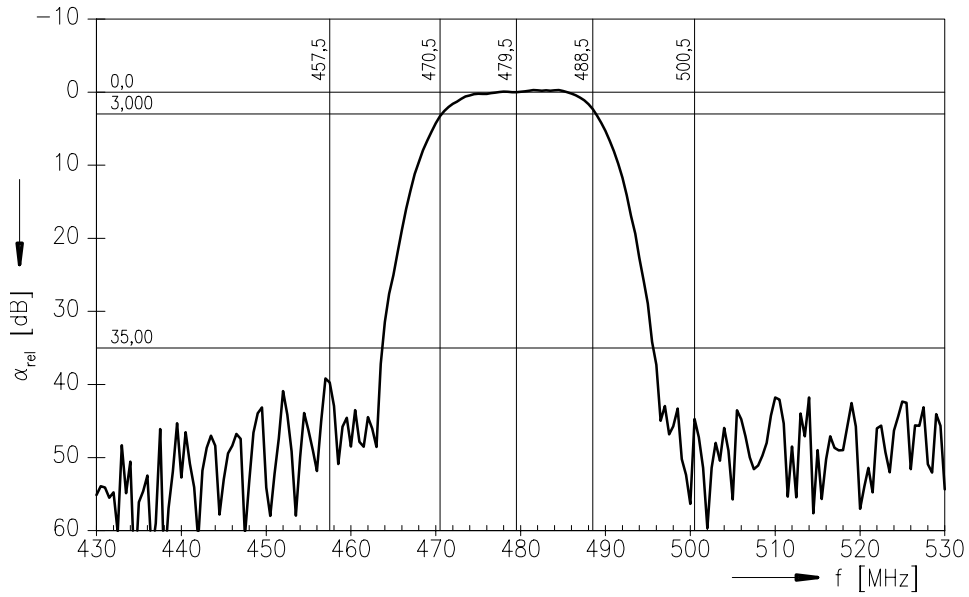
Time domain response of channel 1





Data Sheet

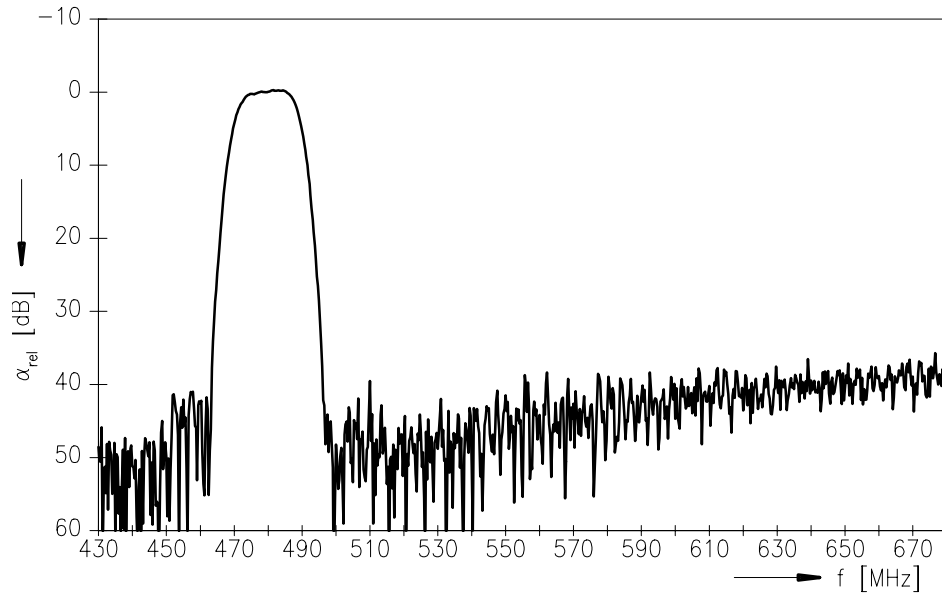
Frequency response of channel 2



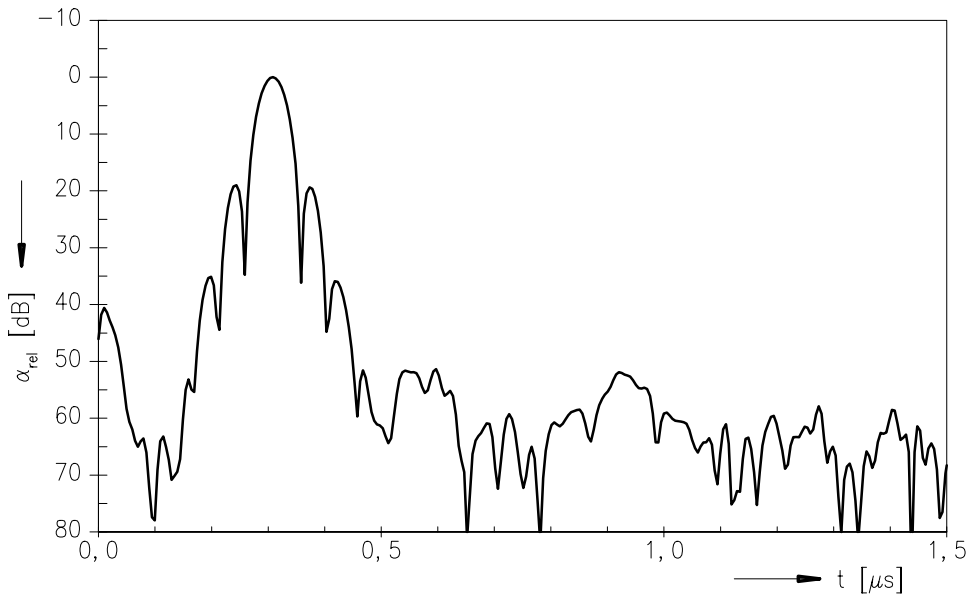


Data Sheet

Frequency response of channel 2



Time domain response of channel 2





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