



SAW Components

Data Sheet B 800

Data Sheet

A large, stylized, 3D-rendered EPCOS logo is shown, appearing to be part of a globe or a sphere. The logo is white and stands out against a dark, textured background that resembles a globe's surface.



SAW Components

B 800

Satellite Receiver Filter

480,00 MHz

Data Sheet

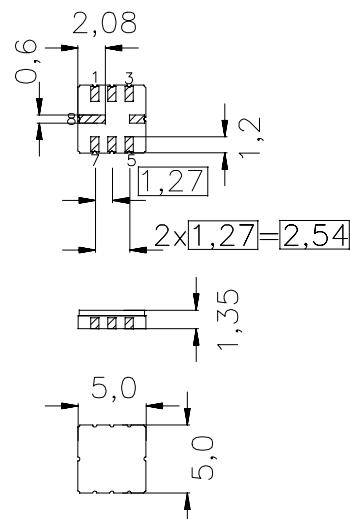
Features

- IF filter for DSB receivers
- Constant group delay
- Optimized group delay time
- Ceramic package for **Surface Mounted Technology (SMT)**

Terminals

- Ni, Gold plated

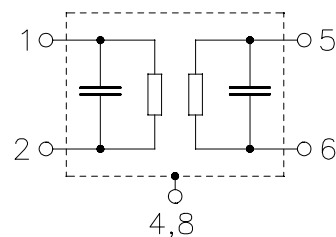
Ceramic package **QCC8C**



Dimensions in mm, approx. weight 0,1 g

Pin configuration

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



Type	Ordering code	Marking and Package according to	Packing according to
B800	B39481-B800-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

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	α				
Reference level for the following data	480,00 MHz	—	18,6	20,5	dB
Center frequency	f_c	479,00	480,00	481,00	MHz
Pass bandwidth					
$\alpha_{rel} \leq 3\text{ dB}$	B_{3dB}	—	27,0	—	MHz
$\alpha_{rel} \leq 10\text{ dB}$	B_{10dB}	—	34,3	—	MHz
Relative attenuation	α_{rel}				
	466,50 MHz	—	2,8	4,6	dB
	493,50 MHz	—	3,1	4,6	dB
Lower sidelobe	430,00 ... 455,50 MHz	38,0	48,0	—	dB
Upper sidelobe	504,50 ... 530,00 MHz	36,0	43,0	—	dB
Reflected wave signal suppression					
0,11 μ s ... 2,0 μ s after main pulse		39,0	42,0	—	dB
Amplitude ripple	$\Delta\alpha$				
473,50 ... 486,50 MHz		—	0,3	0,5	dB
Group Delay	τ				
480,00 MHz		—	250,0	—	ns
Group delay ripple (p-p)	$\Delta\tau$				
467,00 ... 493,00 MHz		—	11	18	ns
Impedance at 480,00 MHz					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	0,07 4,5	—	k Ω pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	0,60 3,1	—	k Ω pF
Temperature coefficient of frequency	TC_f	—	– 86	—	ppm/K



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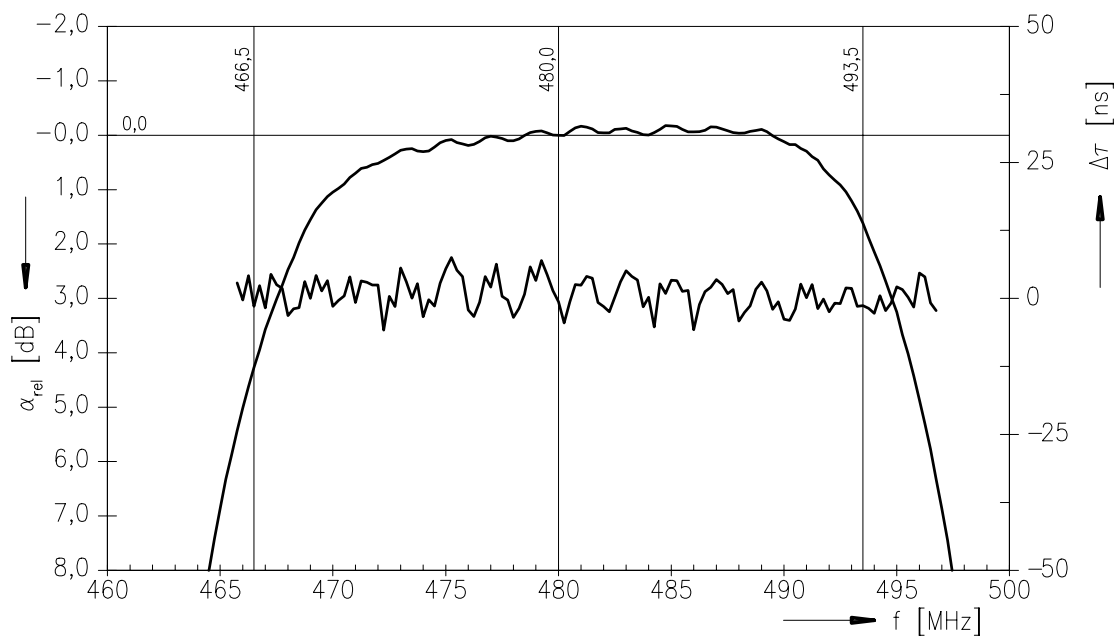
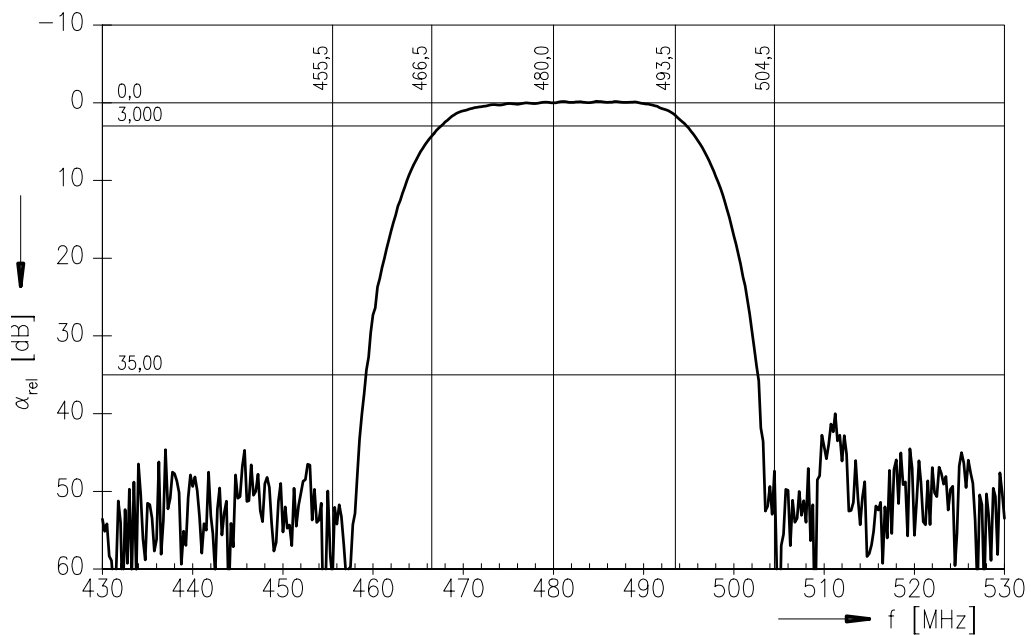
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Frequency response





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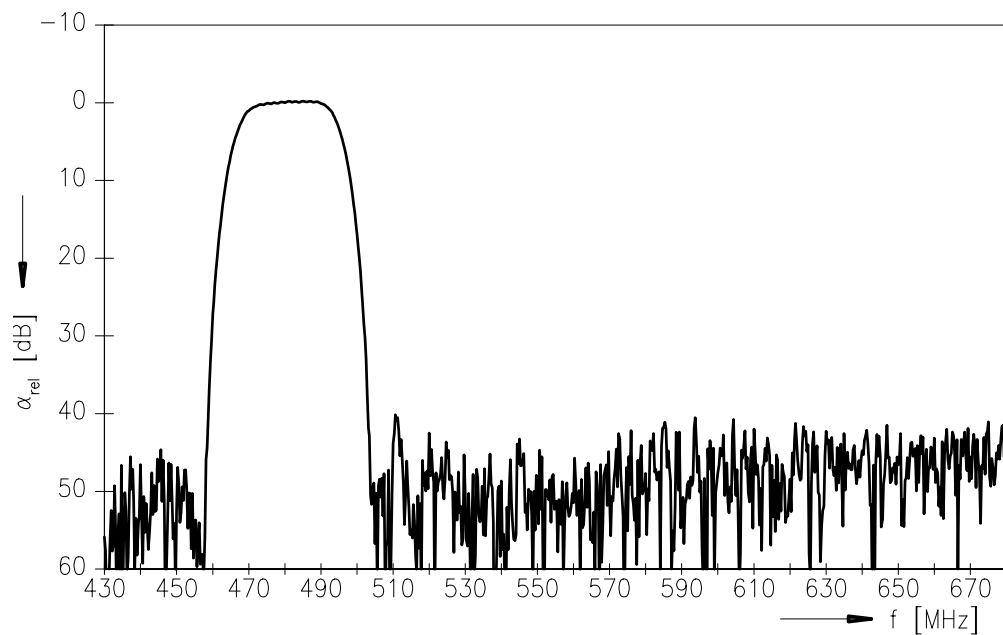
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Satellite Receiver Filter

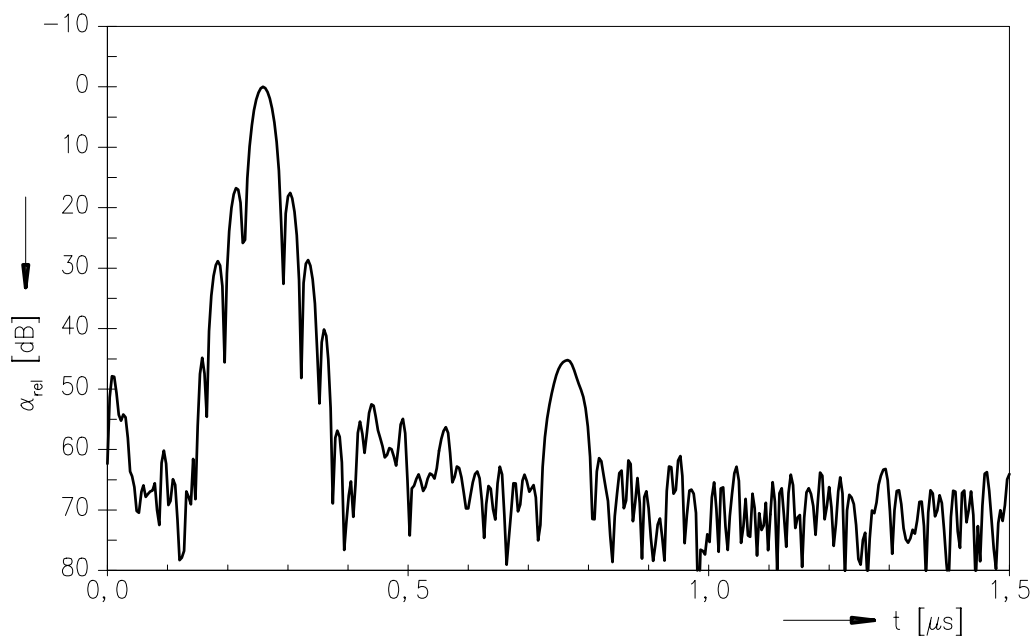
480,00 MHz

Data Sheet

Frequency response



Time domain response





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