



# SAW Components

Data Sheet B 800





**SAW Components**

**B 800**

**Satellite Receiver Filter**

**480,00 MHz**

**Data Sheet**

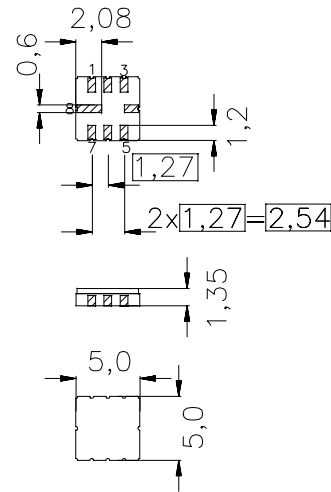
**Features**

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

**Terminals**

- Ni, Gold plated

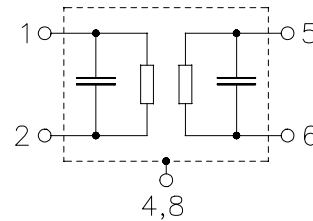
Ceramic package **QCC8C**



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**

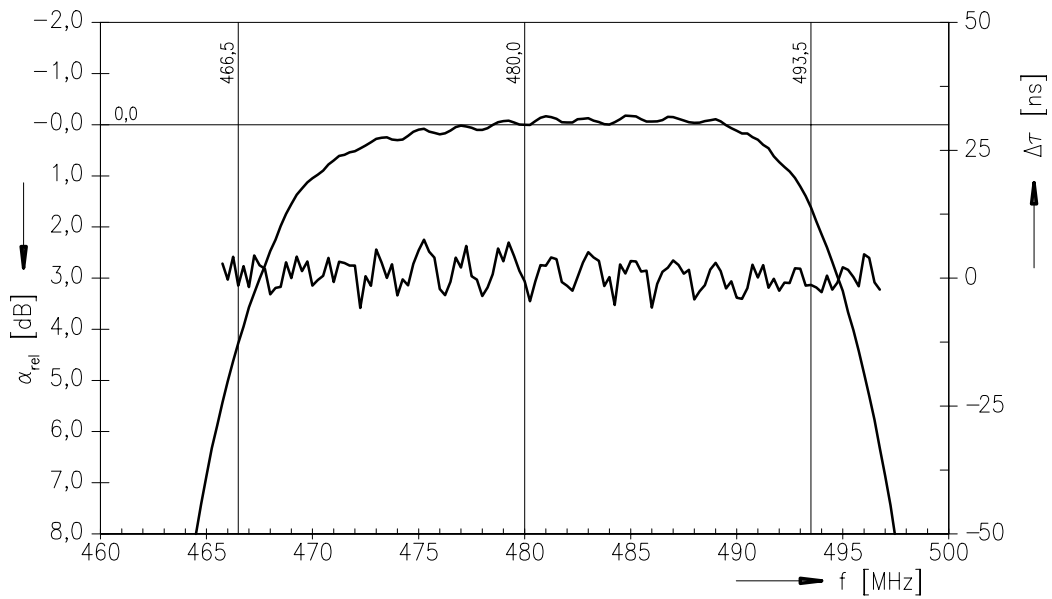
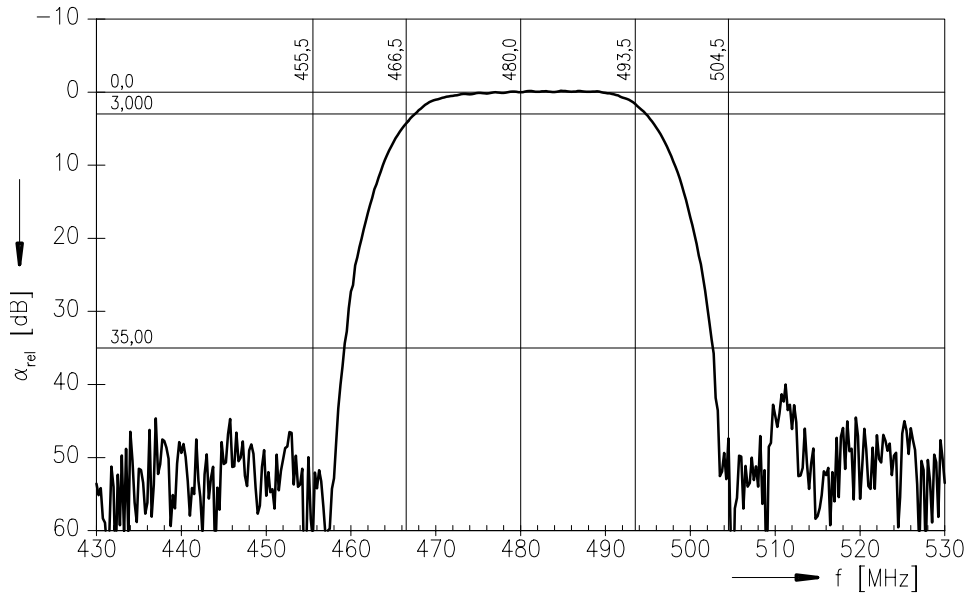
Reference temperature:  $T_A = 25\text{ }^\circ\text{C}$   
 Terminating source impedance:  $Z_S = 50\ \Omega$   
 Terminating load impedance:  $Z_L = 50\ \Omega$   
 Group delay aperture: 0,25MHz

		min.	typ.	max.	
<b>Insertion attenuation</b>	$\alpha$				
Reference level for the following data	480,00 MHz	—	18,6	20,5	dB
<b>Center frequency</b>	$f_c$	479,00	480,00	481,00	MHz
<b>Pass bandwidth</b>					
$\alpha_{rel} \leq 3\text{ dB}$	$B_{3dB}$	—	27,0	—	MHz
$\alpha_{rel} \leq 10\text{ dB}$	$B_{10dB}$	—	34,3	—	MHz
<b>Relative attenuation</b>	$\alpha_{rel}$				
	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
<b>Reflected wave signal suppression</b>					
0,11 $\mu\text{s}$ ... 2,0 $\mu\text{s}$ after main pulse		39,0	42,0	—	dB
<b>Amplitude ripple</b>	$\Delta\alpha$				
473,50 ... 486,50 MHz		—	0,3	0,5	dB
<b>Group Delay</b>	$\tau$				
480,00 MHz		—	250,0	—	ns
<b>Group delay ripple (p-p)</b>	$\Delta\tau$				
467,00 ... 493,00 MHz		—	11	18	ns
<b>Impedance at 480,00 MHz</b>					
Input: $Z_{IN} = R_{IN} \parallel C_{IN}$		—	0,07    4,5	—	k $\Omega$    pF
Output: $Z_{OUT} = R_{OUT} \parallel C_{OUT}$		—	0,60    3,1	—	k $\Omega$    pF
<b>Temperature coefficient of frequency</b>	$TC_f$	—	- 86	—	ppm/K



Data Sheet

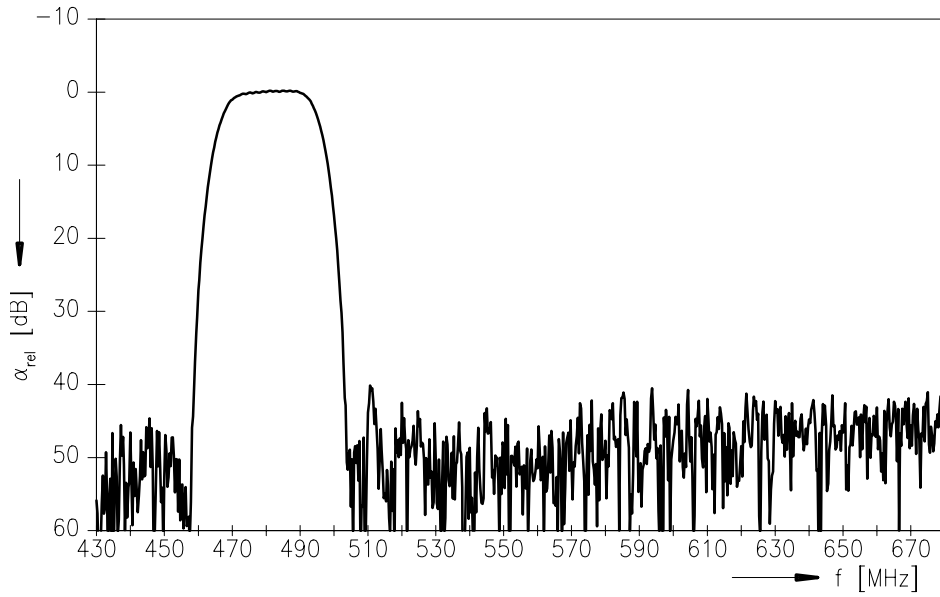
Frequency response



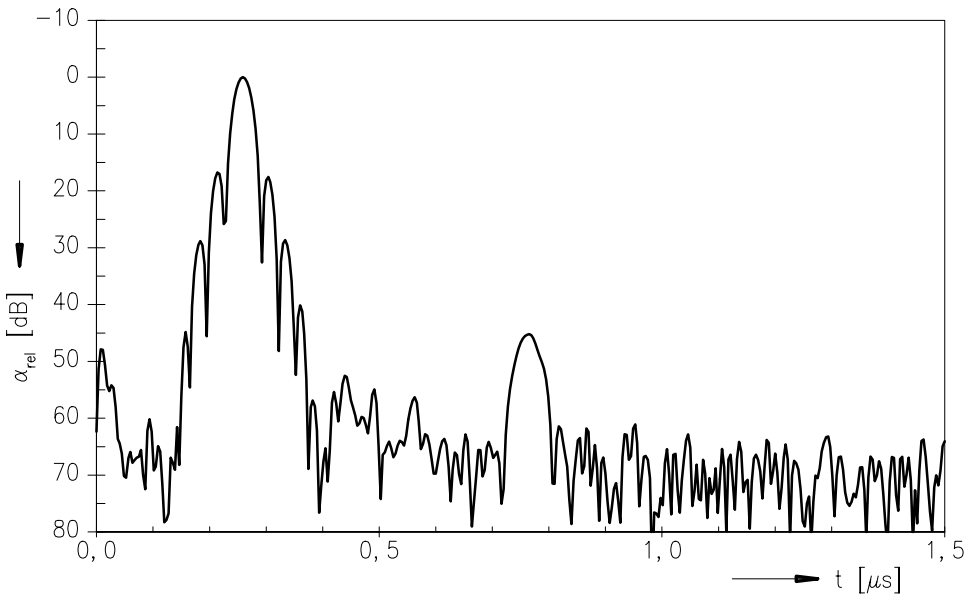


Data Sheet

Frequency response



Time domain response





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