



SAW Components

Data Sheet B3856

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, 3D letters. The letters are white with a blue glow and are positioned diagonally across the frame. In the background, there is a faint, stylized globe with circuitry patterns, suggesting a global network or technological theme. The overall color scheme is dark with blue and white highlights.



SAW Components

B3856

Vestigial Sideband Filter

45,75 MHz

Data Sheet

Standard

- M/N USA

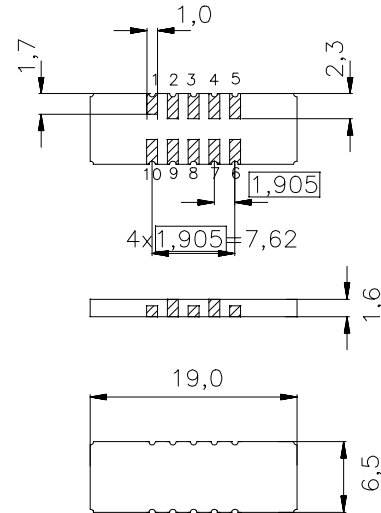
Features

- Vestigial sideband filter with sound
- Group delay predistortion
- Hermetically sealed ceramic package

Terminals

- Gold plated

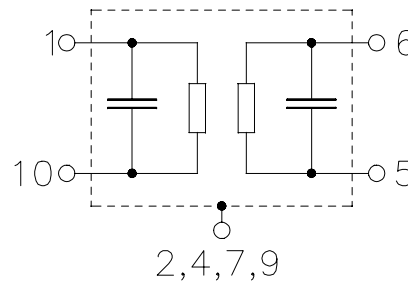
Ceramic package DCC18



Dimensions in mm, approx. weight 0,8 g

Pin configuration

- | | |
|------------|------------------|
| 1 | Input |
| 10 | Input – ground |
| 6 | Output |
| 5 | Output – ground |
| 2, 4, 7, 9 | Case – ground |
| 3, 8 | Must be grounded |



Type	Ordering code	Marking and Package according to	Packing according to
B3856	B39460-B3856-U210	C61157A0007A054	F61074V8081Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 40/+ 85	°C	
Storage temperature range	T_{stg}	- 40/+ 85	°C	
DC voltage	V_{DC}	0	V	
Source power	P_s	15	dBm	source impedance 50 Ω



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Characteristics

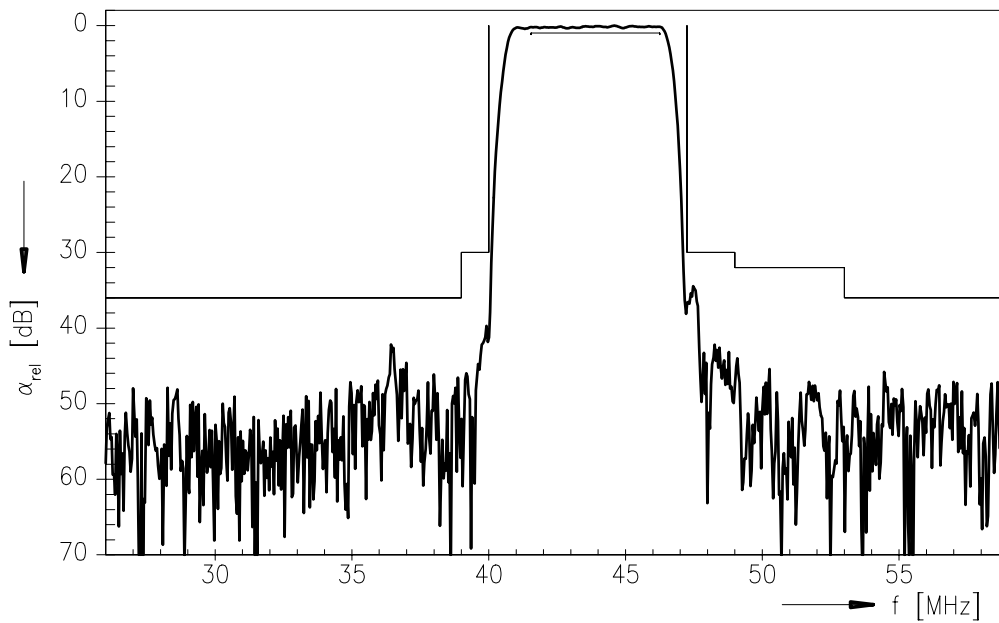
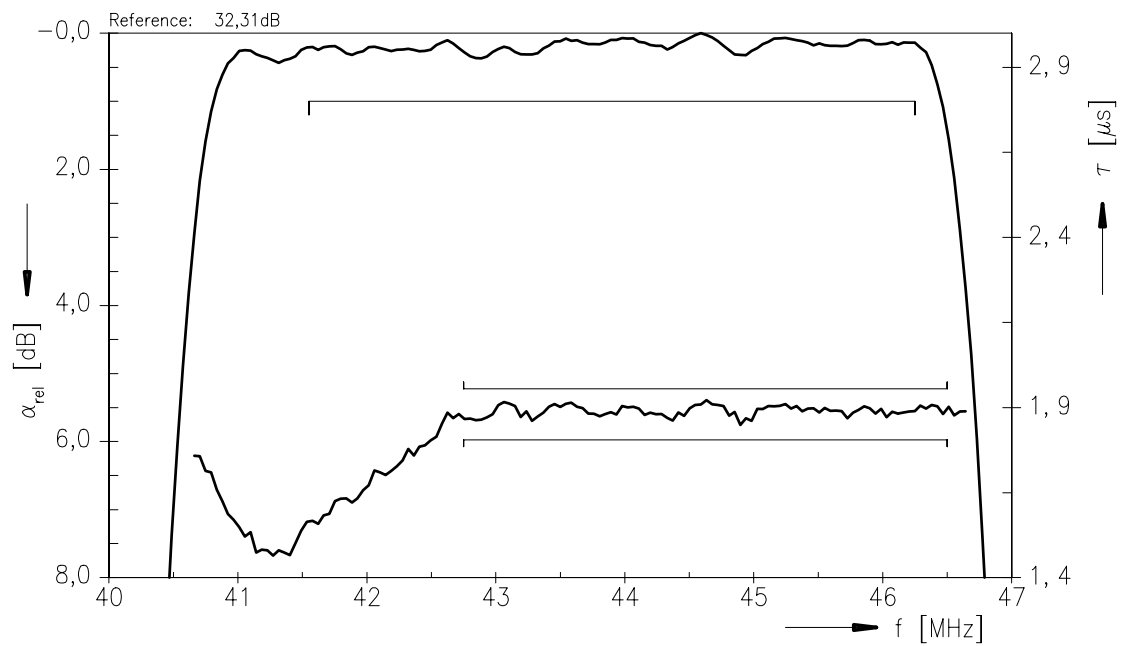
Operating temperature:	$T = 50\text{ }^{\circ}\text{C}$	(see annotation)
Terminating source impedance:	$Z_S = 50\text{ }\Omega$	
Terminating load impedance:	$Z_L = 50\text{ }\Omega$	
Group delay aperture	80 kHz	

		min.	typ.	max.	
Nominal frequency	f_N	—	45,75	—	MHz
Insertion attenuation at f_N	α_N	—	33,5	34,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
41,55 ... 46,25 MHz		—	0,4	1,0	dB
Relative attenuation (relative to α_N)	α_{rel}				
41,25 MHz		—	0,0	1,0	dB
46,50 MHz		—	1,5	2,5	dB
47,00 MHz		12,0	17,0	—	dB
25,00 ... 39,00 MHz		36,0	43,0	—	dB
39,00 ... 40,00 MHz		30,0	38,0	—	dB
47,25 ... 49,00 MHz		30,0	37,0	—	dB
49,00 ... 53,00 MHz		32,0	42,0	—	dB
53,00 ... 59,25 MHz		36,0	46,0	—	dB
59,25 ... 80,00 MHz		30,0	40,0	—	dB
80,00 ... 100,00 MHz		16,0	19,0	—	dB
Reflected wave signal suppression					
1,70 μs ... 5,50 μs after main pulse		40,0	45,0	—	dB
1,84 μs ... 1,70 μs before main pulse		45,0	51,0	—	dB
Group delay at f_N	τ_N	—	1,8	—	μs
Group delay (relative to τ_N)	τ_{rel}				
41,57 MHz		—	-340,0	—	ns
42,17 MHz		—	-170,0	—	ns
42,75 ... 46,50 MHz		—	0,0	$\pm 75,0$	ns
Temperature coefficient of frequency	TC_f	—	- 87	—	ppm/K

Annotation:

For 25°C all frequencies should be multiplied by 1,002175

e.g. 41,25 MHz (50°C)*1,002175 = 41,3397 MHz (25°C)

**SAW Components****B3856****Vestigial Sideband Filter****45,75 MHz****Data Sheet****Frequency response**



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