EPCOS

SAW Components

Data Sheet B3856

Data Sheet

Ceramic package **DCC18**

Standard

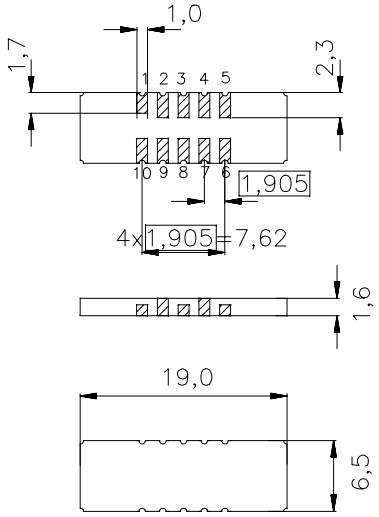
- M/N USA

Features

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

Terminals

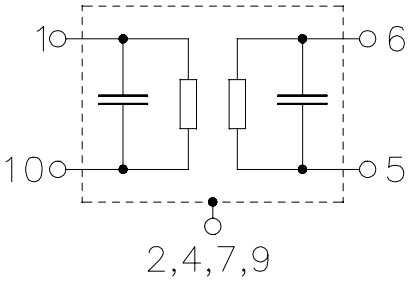
- Gold plated



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 **S**ensitive **D**evice (**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

Data Sheet

Characteristics

Operating temperature: T = 50 ˚C (see annotation)
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω
Group delay aperture 80 kHz

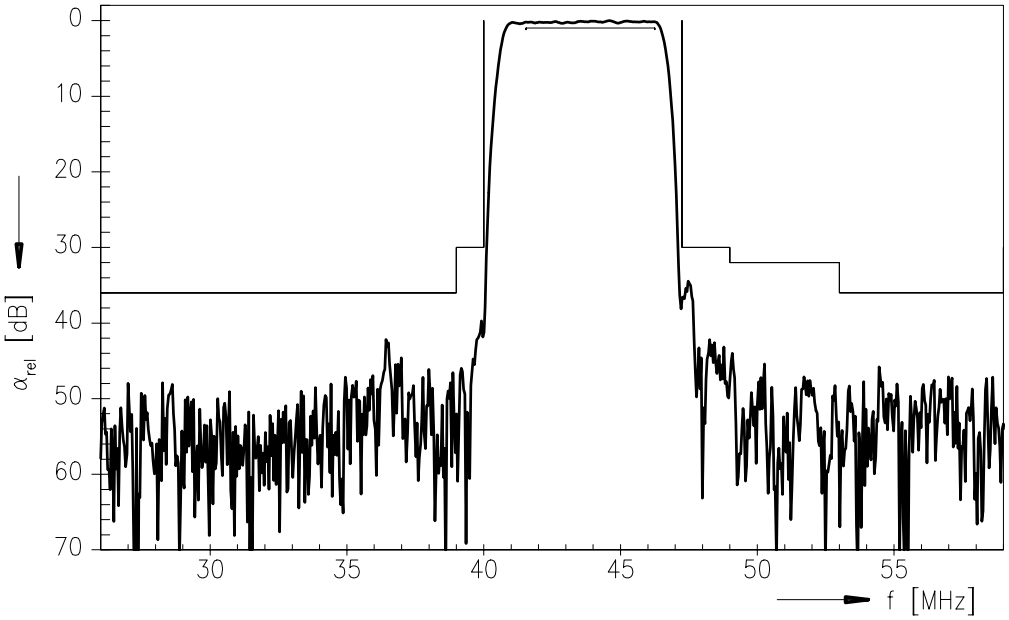
		min.	typ.	max.	
Nominal frequency	f_N	—	45,75	—	MHz
Insertion attenuation at f_N	α_N	—	33,5	34,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
41,55 … 46,25 MHz		—	0,4	1,0	dB
Relative attenuation (relative to α_N)	α_{rel}				
41,25 MHz		—	0,0	1,0	dB
46,50 MHz		—	1,5	2,5	dB
47,00 MHz		12,0	17,0	—	dB
25,00 … 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	±75,0	ns
Temperature coefficient of frequency	TC_f	—	– 87	—	ppm/K

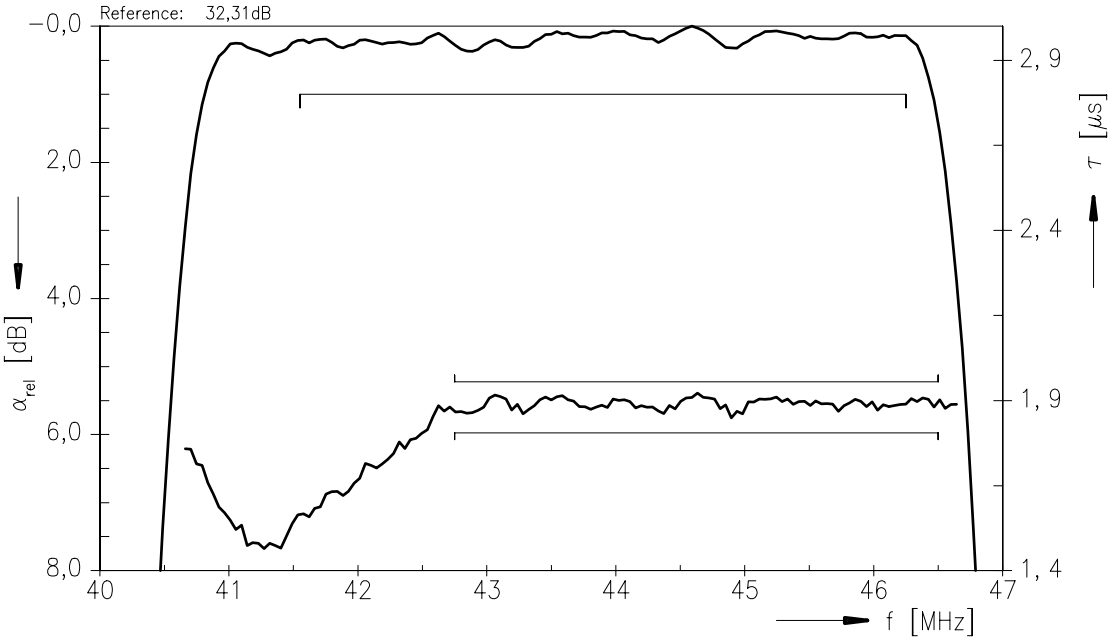
Annotation:

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)

Frequency response





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