

SAW Components

Data Sheet B3856





SAW Components B3856 Vestigial Sideband Filter 45,75 MHz

Data Sheet

Standard

M/N USA

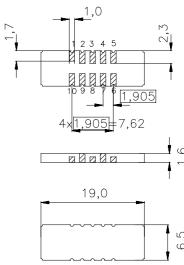
Features

- 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

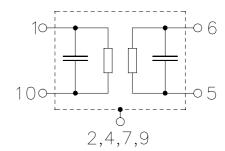
Pin configuration

1 Input

10 Input – ground

6 Output

5 Output – ground 2, 4, 7, 9 Case – ground 3, 8 Must be grounded



Туре	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	$T_{\rm stg}$	- 40/+ 85	°C	
DC voltage	$V_{\rm DC}$	0	V	
Source power	P_{s}	15	dBm	source impedance 50 Ω



SAW Components B3856

Vestigial Sideband Filter

45,75 MHz

Data Sheet

Characteristics

Operating temperature: $T = 50 \,^{\circ}\text{C}$ (see annotation)

Terminating source impedance: $Z_{\rm S} = 50~\Omega$ Terminating load impedance: $Z_{\rm L} = 50~\Omega$ Group delay aperture $Z_{\rm L} = 50~\Omega$

				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)		$lpha_{rel}$					
	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 suppres	sion						
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 $f_{\rm N}$			τ_{N}	_	1,8	_	μs
Group delay (relative to τ_N)		$ au_{ m 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)



SAW Components

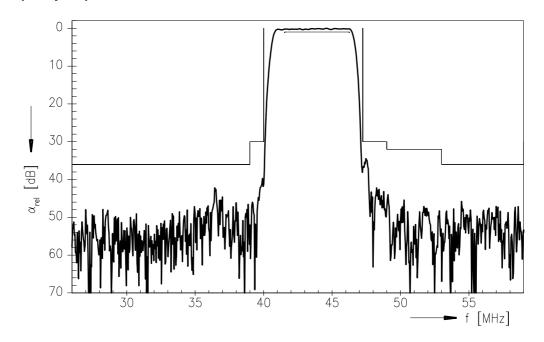
B3856

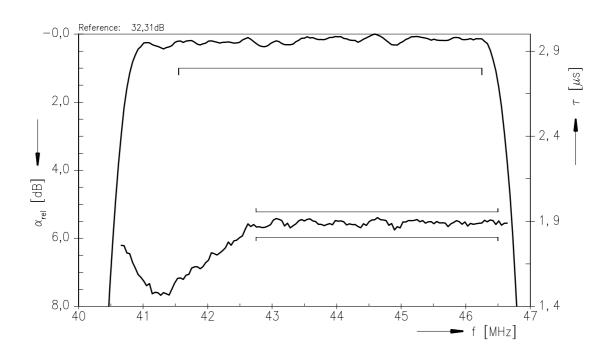
Vestigial Sideband Filter

45,75 MHz

Data Sheet

Frequency response







SAW Components B3856

Vestigial Sideband Filter

45,75 MHz

Data Sheet

Published by EPCOS AG Surface Acoustic Wave Components Division, SAW MC IS P.O. Box 80 17 09, 81617 Munich, GERMANY

© EPCOS AG 2002. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.