

SAW filters for infrastructure systems

Series/Type: B3856

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product		Deadline Last Orders	Last Shipments
B39460B3856U210		2011-04-01	2011-06-30	2011-09-30

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SAW Components B3856 Vestigial Sideband Filter 45,75 MHz

Data Sheet

Standard

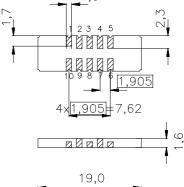
M/N USA

Features

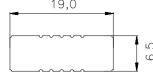
- Vestigial sideband filter with sound
- Group delay predistortion
- Hermetically sealed ceramic package

Terminals

Gold plated



Ceramic package DCC18



Dimensions in mm, approx. weight 0,8 g

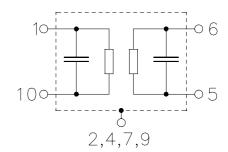
Pin configuration

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	
	T	- 40/+ 85	°C	
Storage temperature range	¹ stg	- 40/+ 65		
DC voltage	$V_{\rm DC}$	0	V	
Source power	P_{s}	15	dBm	source impedance 50 Ω



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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 p	oulse			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)



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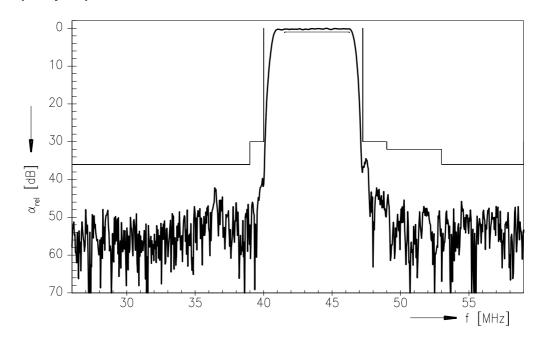
B3856

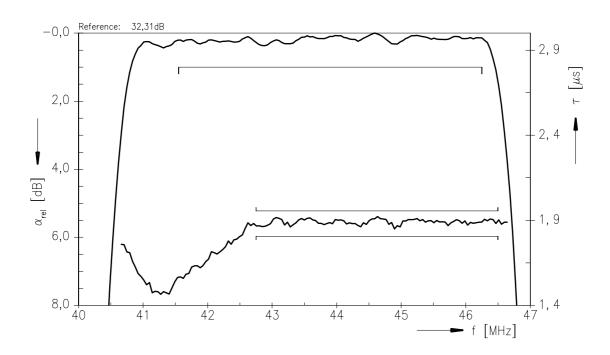
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Frequency response







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