

SAW Components

Data Sheet B3821





SAW Components B3821
Low-Loss Filter 860,5 MHz

Data Sheet

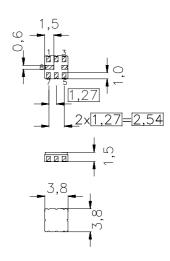
Ceramic package QCC8B

Features

- Low-loss filter for TETRA
- Usable bandwidth 19 MHz
- lacktriangle No matching required for operation at 50 Ω
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package

Terminals

Gold-plated

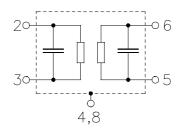


typ. Dimensions in mm, approx. weight 0,07 g

Pin configuration

2 Input6 Output

1, 3, 4, 5, 7, 8 To be grounded



Туре	Ordering code	Marking and Package according to	Packing according to		
B3821	B39861-B3821-Z810	C61157-A7-A46	F61074-V8037-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_{A}	-40 / +85	°C	
Storage temperature range	T_{stg}	-40 / +85	°C	
DC voltage	$V_{\rm DC}$	0	V	
Input power max.				source impedance 50 Ω
	P_{IN}	15 ,0	dBm	CW for min. 10 000 h, 85 °C



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Characteristics

Operating temperature range:

 $T_{A} = +15 \dots +35 \,^{\circ} \text{C}$ $Z_{S} = 50 \,\Omega$ $Z_{L} = 50 \,\Omega$ Terminating source impedance: Terminating load impedance:

		min.	typ.	max.	
Nominal frequency	f _N	_	860,5	_	MHz
Maximum insertion attenuation	$\alpha_{\sf max}$				
851,0 MHz 870,0 MHz		_	2,2	2,5	dB
Amplitude ripple (p-p)	Δα				
851,0 MHz 870,0 MHz		_	0,45	0,7	dB
Input and output return loss					
851,0 MHz 870,0 MHz		12	16	_	dB
Absolute attenuation	$lpha_{abs}$				
0,1 MHz 797,0 MHz	5.00	45	55	_	dB
797,0 MHz 813,0 MHz		40	50	_	dB
813,0 MHz 829,0 MHz		35	43	_	dB
829,0 MHz 833,0 MHz		25	40	_	dB
904,0 MHz 959,0 MHz		30	40	_	dB
959,0 MHz 1089,0 MHz		50	60	_	dB
1089,0 MHz 2000,0 MHz		30	42	_	dB
Temperature coefficient of frequency	TC _f	_	- 36	_	ppm/K



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860,5 MHz **Low-Loss Filter**

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Characteristics

Operating temperature range:

 $T_{A} = -30 \dots +70 \,^{\circ}\text{C}$ $Z_{S} = 50 \,\Omega$ $Z_{L} = 50 \,\Omega$ Terminating source impedance: Terminating load impedance:

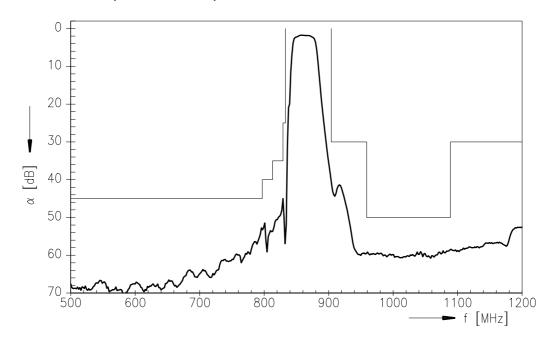
		min.	typ.	max.	
Nominal frequency	f _N	_	860,5	_	MHz
Maximum insertion attenuation	$\alpha_{\sf max}$				
851,0 MHz 870,0 MHz		_	2,3	2,7	dB
Amplitude ripple (p-p)	$\Delta \alpha$				
851,0 MHz 870,0 MHz		_	0,55	0,8	dB
Input and output return loss					
851,0 MHz 870,0 MHz		12	16	_	dB
Absolute attenuation	$lpha_{abs}$				
0,1 MHz 797,0 MHz		45	55	_	dB
797,0 MHz 813,0 MHz		40	50	_	dB
813,0 MHz 829,0 MHz		35	43	_	dB
829,0 MHz 833,0 MHz		19	40	_	dB
904,0 MHz 959,0 MHz		30	40	_	dB
959,0 MHz 1089,0 MHz		50	60	_	dB
1089,0 MHz 2000,0 MHz		30	42	_	dB
Temperature coefficient of frequency	<i>TC</i> _f		- 36		ppm/l



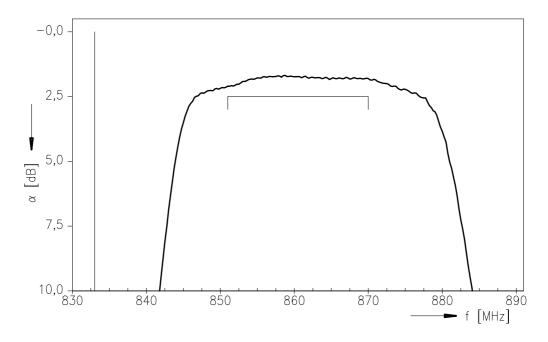
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Transfer function (+15 °C ... +35 °C)



Transfer function (pass band; +15 °C ... +35 °C)





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

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