

SAW Components

Data Sheet B3681





SAW Components B3681

Low-Loss Filter 422,5 MHz

Data Sheet

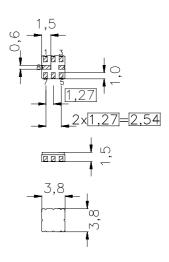
Ceramic package QCC8B

Features

- Low-loss filter (RX) for Trunked Radio
- Usable bandwidth 5 MHz
- lacktriangle No matching required for operation at 50 Ω
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package

Terminals

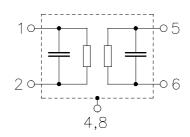
Gold-plated



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

Pin configuration

1	Input
2	Input ground
5	Output
6	Output ground
3, 7	Ground
4, 8	Case ground



Туре	Ordering code	Marking and Package according to	Packing according to
B3681	B39421-B3681-Z810	C61157-A7-A46	F61074-V8037-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_{A}	-30 / +75	°C	
Storage temperature range	$T_{\rm stg}$	-40 / +85	°C	
DC voltage	$V_{\rm DC}$	0	V	
Source power	P_{s}	10	dBm	source impedance 50 Ω



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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	_	422,5	_	MHz
Maximum insertion attenuation	$\alpha_{\sf max}$				
420,0 MHz 425,0 MHz		_	3,0	3,5	dB
Amplitude ripple (p-p)	Δα				
420,0 MHz 425,0 MHz			0,7	1,2	dB
Return loss (Input and Output)					
420,0 MHz 425,0 MHz		12,0	14,0	_	dB
VSWR					
420,0 MHz 425,0 MHz		_	1,5:1	2,0:1	
Absolute attenuation	α_{abs}				
0,3 MHz 335,0 MHz		40	60	_	dB
335,0 MHz 410,0 MHz		25	45	_	dB
410,0 MHz 415,0 MHz		25	35	_	dB
442,0 MHz 510,0 MHz		20	45	_	dB
510,0 MHz 1105,0 MHz		40	45	_	dB
1105,0 MHz 1800,0 MHz		20	25	_	dB
Temperature coefficient of frequency	TC _f		- 36	<u> </u>	ppm/K



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Operating temperature range:

 $T_{A} = -30 \dots +75 \,^{\circ} \text{C}$ $Z_{S} = 50 \,\Omega$ $Z_{L} = 50 \,\Omega$ Terminating source impedance: Terminating load impedance:

		min.	typ.	max.	
Nominal frequency	f _N		422,5	_	MHz
Maximum insertion attenuation	$\alpha_{\sf max}$				
420,0 MHz 425,0 MHz		_	3,0	3,5	dB
Amplitude ripple (p-p)	Δα				
420,0 MHz 425,0 MHz		_	0,8	2,0	dB
Return loss (Input and Output)					
420,0 MHz 425,0 MHz		12,0	14,0	_	dB
VSWR					
420,0 MHz 425,0 MHz		_	1,5:1	2,0:1	
Absolute attenuation	α_{abs}				
0,3 MHz 335,0 MHz		40	60	<u>—</u>	dB
335,0 MHz 410,0 MHz		25	45	_	dB
410,0 MHz 415,0 MHz		25	35	_	dB
442,0 MHz 510,0 MHz		20	45	_	dB
510,0 MHz 1105,0 MHz		40	45	_	dB
1105,0 MHz 1800,0 MHz		20	25	<u>—</u>	dB
Temperature coefficient of frequency	TC _f	_	- 36	<u> </u>	ppm/K

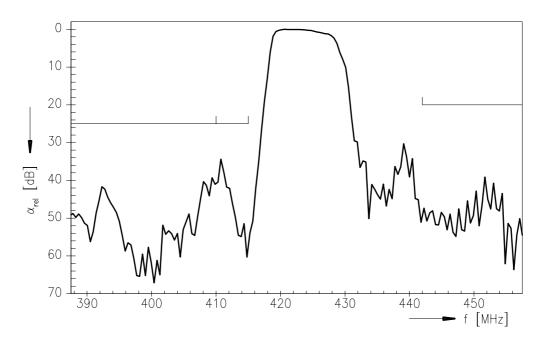


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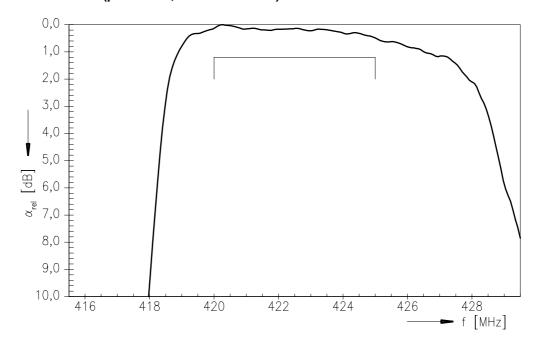
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Transfer function



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





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