

SAW Components

Data Sheet B3823





SAW Components B3823
Low-Loss Filter 397,5 MHz

Data Sheet

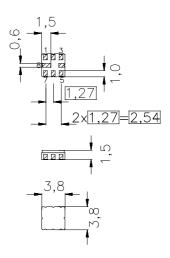
Ceramic package QCC8B

Features

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

Terminals

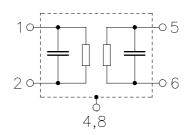
Gold-plated



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

Pin configuration

d



Туре	Ordering code	Marking and Package according to	Packing according to
B3823	B39401-B3823-Z810	C61157-A7-A46	F61074-V8037-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T_{A}	-30 / +70	°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	_	397,5	_	MHz
Maximum insertion attenuation	$\alpha_{\sf max}$				
395,0 MHz 400,0 MHz		_	2,7	3,5	dB
Amplitude ripple (p-p)	Δα				
395,0 MHz 400,0 MHz		_	0,6	1,4	dB
Return loss (Input and Output)					
395,0 MHz 400,0 MHz		12,0	13,0	_	dB
VSWR					
395,0 MHz 400,0 MHz		_	1,6:1	2,0:1	
Absolute attenuation	$lpha_{abs}$				
0,1 MHz 355,0 MHz		40	60	_	dB
355,0 MHz 390,0 MHz		25	35		dB
435,0 MHz 885,0 MHz		40	50	_	dB
885,0 MHz 2000,0 MHz		20	35	_	dB
Temperature coefficient of frequency	TC _f	_	- 36	_	ppm/K



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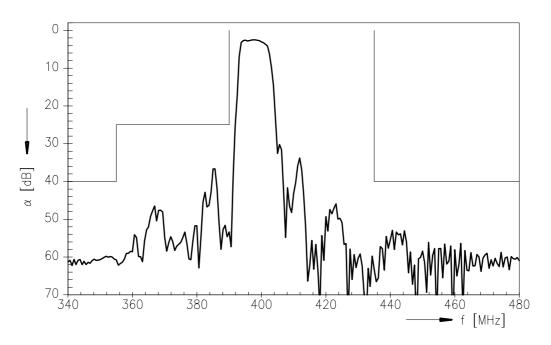
		min.	typ.	max.	
Nominal frequency	f _N	_	397,5	_	MHz
Maximum insertion attenuation	α_{max}				
395,0 MHz 400,0 MHz		_	3,0	3,5	dB
Amplitude ripple (p-p)	Δα				
395,0 MHz 400,0 MHz			0,8	2,0	dB
Return loss (Input and Output)					
395,0 MHz 400,0 MHz		12,0	13,0		dB
VSWR					
395,0 MHz 400,0 MHz		_	1,6:1	2,0:1	
Absolute attenuation	α_{abs}				
0,1 MHz 355,0 MHz		40	60	_	dB
355,0 MHz 390,0 MHz		25	35	_	dB
435,0 MHz 885,0 MHz		40	50	_	dB
885,0 MHz 2000,0 MHz		20	35	_	dB
Temperature coefficient of frequency	<i>TC</i> _f		- 36	<u> </u>	ppm/K



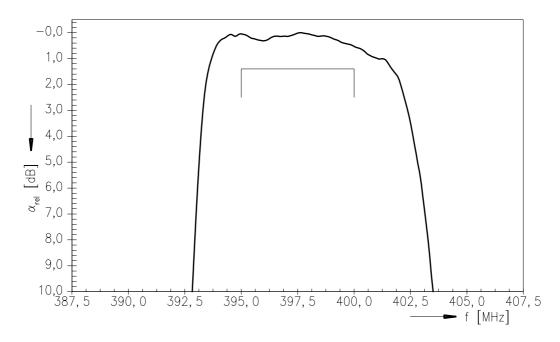
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Transfer function



Normalized transfer function (pass band; +15 $^{\circ}$ C ... +35 $^{\circ}$ C)





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