SAW Components

SAW RF filter

TETRA

Series/type:	**B5074**
Ordering code:	**B39361-B5074-Z810**
Date:	Sep 26, 2007
Version:	2.0

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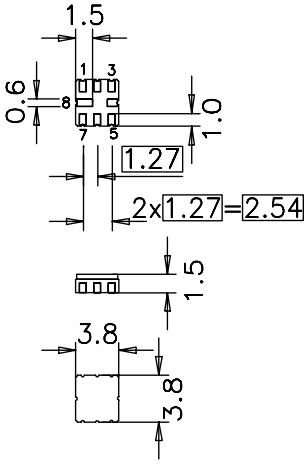
Application

- RF filter for TETRA receiver
- Usable band width 10 MHz



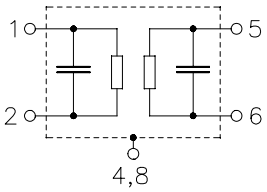
Features

- Package size 3.8 x 3.8 x 1.50 mm³
- Package code QCC8B
- RoHS compatible
- Approx. weight 0.07 g
- Ceramic package for **S**urface **M**ount **T**echnology (**SMT**)
- Ni, gold-plated terminals
- **E**lectrostatic **S**ensitive **D**evice (**ESD**)
- Filter surface passivated



Pin configuration

■	5	Input
■	1	Output or output balanced
■	2	Output ground or output balanced
■	3, 6, 7	Ground
■	4, 8	Case ground



Data sheet SMD

Characteristics

Operating temperature range: T = –30 to 70 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ. @ 25 °C	max.	
Nominal frequency	f_N	—	365.0	—	MHz
Maximum insertion attenuation					
$f_N \pm 5.0$ MHz	α_{max}	—	1.7	3.0[1)]	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
$f_N \pm 5.0$ MHz		—	0.7	2.0[2)]	dB
VSWR					
$f_N \pm 5.0$ MHz		—	1.5	2.0	
Attenuation	α				
0.1 MHz ... 81.0 MHz		27	70	—	dB
81.0 MHz ... 82.0 MHz		31	70	—	dB
82.0 MHz ... 325.8 MHz		13	55	—	dB
325.8 MHz		27	55	—	dB
325.8 MHz ... 355.0 MHz		10	20	—	dB
378.0 MHz ... 400.0 MHz		10	26	—	dB
400.0 MHz ... 414.0 MHz		6	50	—	dB
414.0 MHz ... 431.0 MHz		16	55	—	dB
431.0 MHz ... 452.0 MHz		27	55	—	dB
452.0 MHz ... 522.0 MHz		16	48	—	dB
522.0 MHz ... 533.0 MHz		41	48	—	dB
533.0 MHz ... 801.0 MHz		19	45	—	dB
801.0 MHz ... 1242.0 MHz		26	35	—	dB
1242.0 MHz ... 1636.0 MHz		28	32	—	dB
1636.0 MHz ... 1806.0 MHz		17	32	—	dB
Temperature coefficient of frequency	TC_f	—	– 36	—	ppm/K

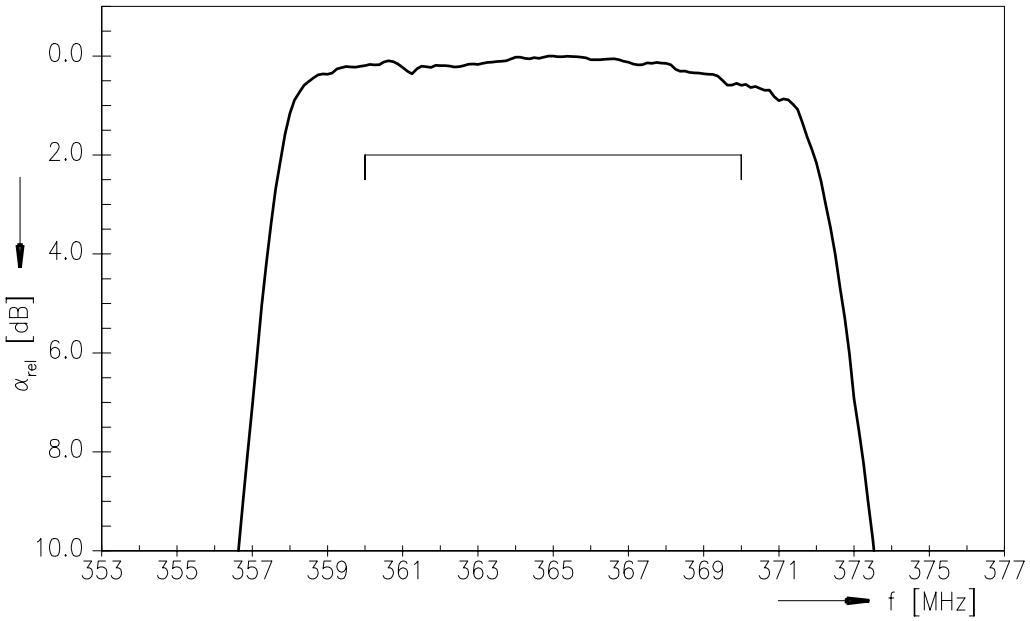
1) 2.5dB max at +15°C to +35°C
2) 1.5dB max at +15°C to +35°C

Maximum ratings

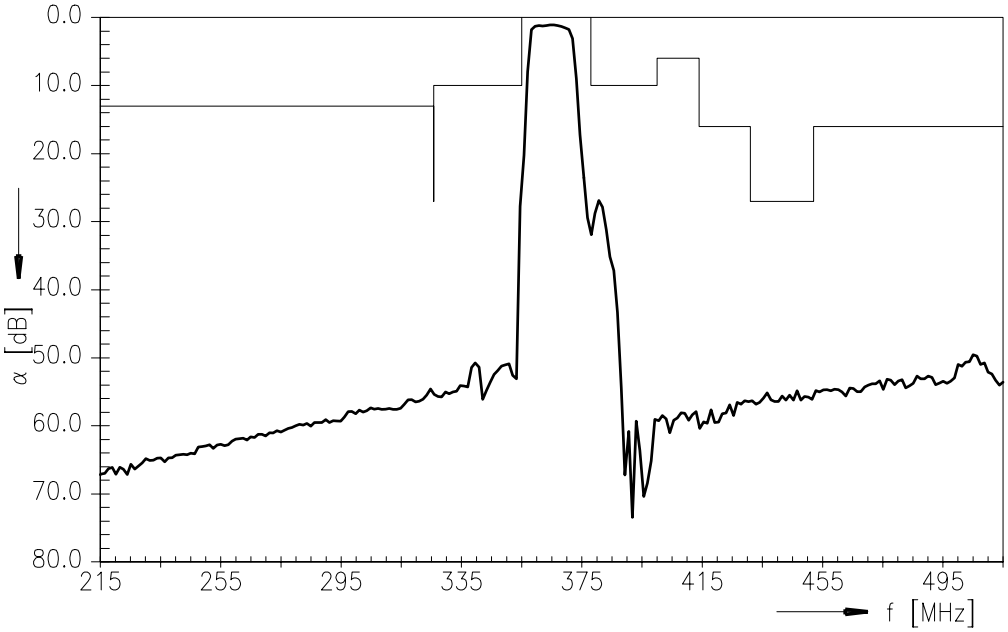
Operable temperature range	T	–40/+85	˚C	
Storage temperature range	T_{stg}	–40/+85	˚C	
DC voltage	V_{DC}	0	V	
ESD voltage	V_{ESD}	100[1)]	V	machine model, 10 pulses
Input power	P_{IN}	15	dBm	

1) acc. to JESD22-A115A (machine model), 10 negative & 10 positive pulses.

Transfer function



Transfer function (wideband)



References

Type	B5074
Ordering code	B39361-B5074-Z810
Marking and package	C61157-A7-A46
Packaging	F61074-V8167-Z000
Date codes	L_1126
S-parameters	
Soldering profile	S_6001
RoHS compatible	defined as compatible with the following documents: "DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment. 2005/618/EC from April 18th, 2005, amending Directive 2002/95/EC of the European Parliament and of the Council for the purposes of establishing the maximum concentration values for certain hazardous substances in electrical and electronic equipment."

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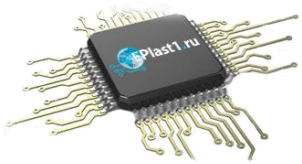
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