



SAW Components

SAW filter

TETRA

Series/type:	B5132
Ordering code:	B39271B5132U310
Date:	March 29, 2010
Version:	2.0



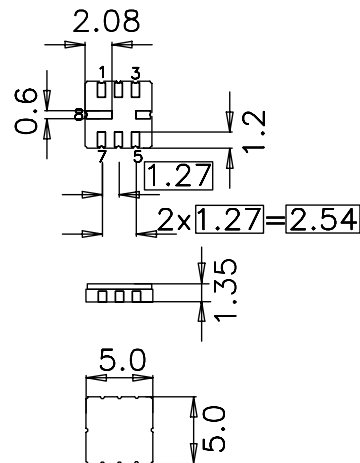
Application

- RF filter for 2-way-radio (TETRA)
- Usable passband of 15MHz
- Unbalanced to Unbalanced operation
- Low amplitude ripple
- No matching required for operation at 50 Ω



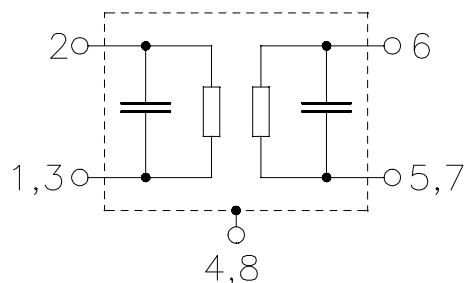
Features

- Package size 5.0 x 5.0 x 1.35 mm³
- Package code QCC8C
- RoHS compatible
- Approximate weight 0.10 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)



Pin configuration

- 2 Input
- 6 Output
- 1,3,5,7 To be grounded
- 4,8 Case ground





Data sheet



Characteristics

Temperature range for specification: T = -30 °C to +70 °C
 Terminating source impedance: Z_S = 50 Ω
 Terminating load impedance: Z_L = 50 Ω

		min.	typ. @ 25 °C	max.	
Center frequency	f _C	—	267.5	—	MHz
Maximum insertion attenuation	α _{max}				
260.0 ... 275.0 MHz		—	2.2	3.5	dB
Amplitude ripple (p-p)	Δα				
260.0 ... 275.0 MHz		—	1.1	2.3	dB
VSWR					
260.0 ... 275.0 MHz		—	1.4	1.9	
Attenuation	α				
10.0 ... 226.0 MHz		28	52	—	dB
226.0 ... 250.0 MHz		11	14	—	dB
290.0 ... 320.0 MHz		14	24	—	dB
320.0 ... 340.0 MHz		20	39	—	dB
340.0 ... 1100.0 MHz		28	35	—	dB
1100.0 ... 1300.0 MHz		24	35	—	dB



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267.50 MHz

Data sheet



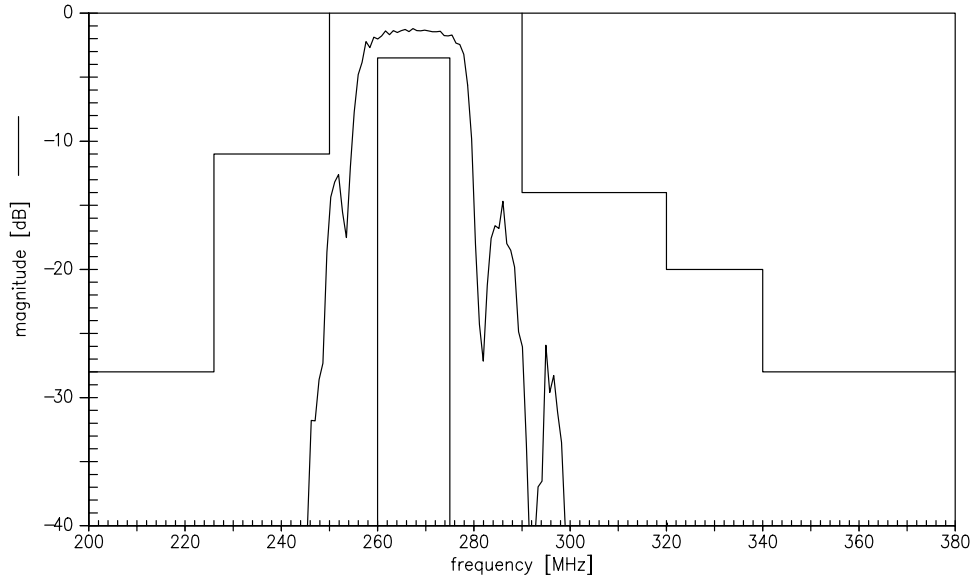
Maximum ratings

Operable temperature range	T	-40/+85	°C	
Storage temperature range	T _{stg}	-40/+85	°C	
DC voltage	V _{DC}	5	V	
ESD voltage	V _{ESD}	100 ¹⁾	V	machine model, 1 pulse
Input power at 260.0 ... 275.0	P _{IN}	10	dBm	CW

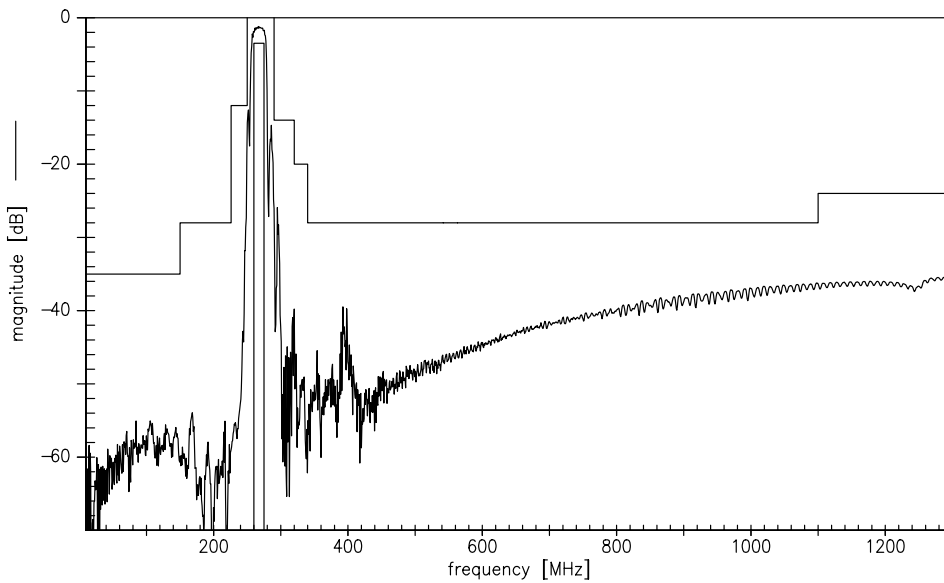
¹⁾ acc. to JESD22-A115A (machine model), 1 negative & 1 positive pulse.



Transfer function



Transfer function (wideband)



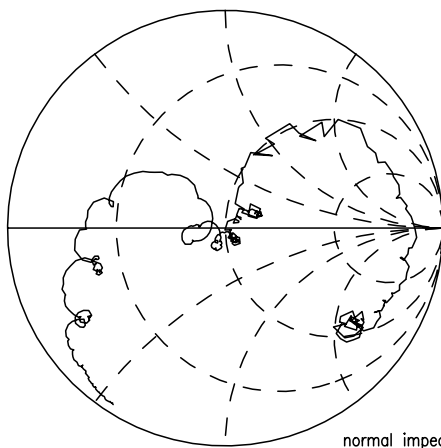


Data sheet

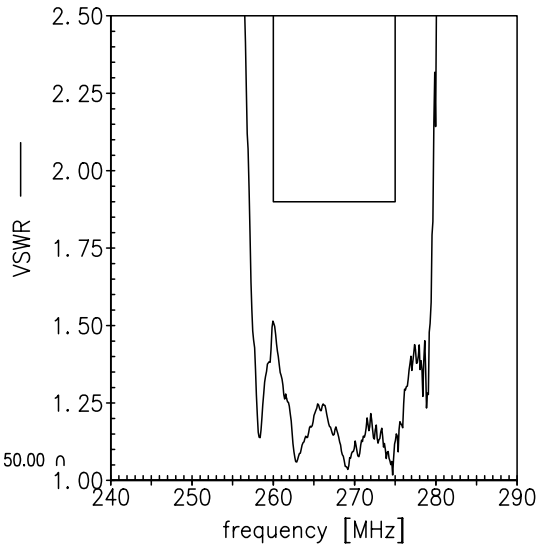


Smith charts

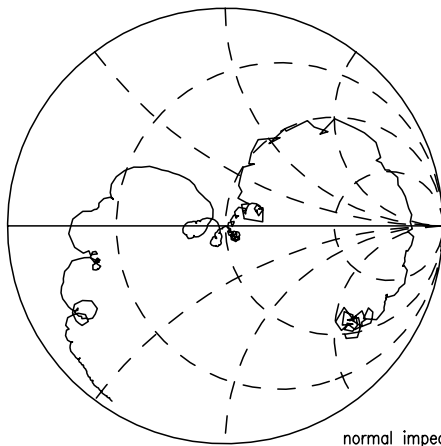
S₁₁ function



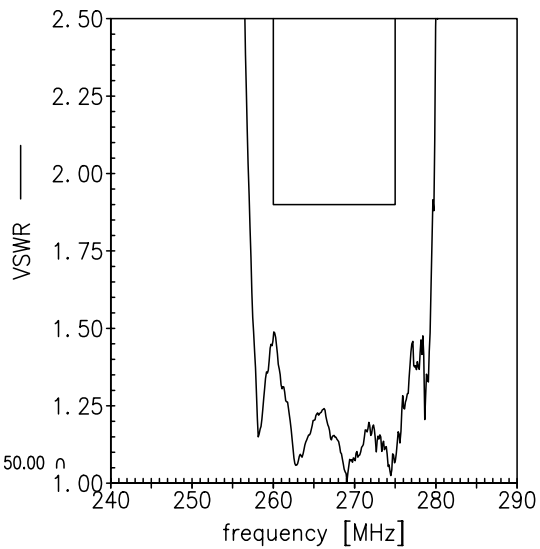
normal impedance: 50.00 Ω



S₂₂ function



normal impedance: 50.00 Ω





SAW Components	B5132
SAW filter	267.50 MHz
Data sheet	

References

Type	B5132
Ordering code	B39271B5132U310
Marking and package	C61157-A7-A56
Packaging	F61074-V8169-Z000
Date codes	L_1126
S-parameters	B5132_NB.s2p B5132_WB.s2p See file header for port/pin assignment table
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."

For further information please contact your local EPCOS sales office or visit our webpage at www.epcos.com.

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