

RF360 Europe GmbH

A Qualcomm – TDK Joint Venture

SAW Components

SAW Rx filter

Satellite Communications

Series/type:	B5072
Ordering code:	B39202B5072U410
Date:	August 28, 2008
Version:	2.1

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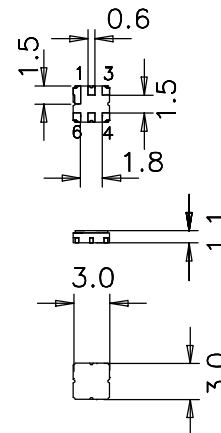
Data sheet


Application

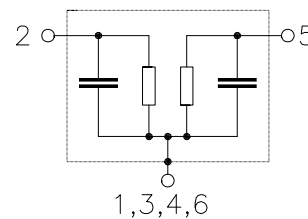
- Low-loss RF filter for base station
Satellite Communication systems, receive path (Rx)
- Unbalanced to unbalanced operation
- No external matching required
- Low amplitude ripple
- Usable passband 20 MHz


Features

- Package size 3.0 x 3.0 x 1.1 mm³
- Package code DCC6C
- RoHS compatible
- Approximate weight 0.037 g
- Package for **Surface Mount Technology (SMT)**
- Ni, gold-plated terminals
- **Electrostatic Sensitive Device (ESD)**


Pin configuration

- 2 Input
- 5 Output
- 1,3,4,6 Case grounded



Data sheet

Characteristics

Temperature range for specification: $T = -10\text{ °C to }+85\text{ °C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$

				min.	typ. @ 25 °C	max.	
Center frequency	f_C			—	2010.00	—	MHz
Maximum insertion attenuation	α_{\max}			—	2.6	3.0	dB
2000.0 ... 2020.0 MHz							
Amplitude ripple (p-p)	$\Delta\alpha$			—	0.5	1.0	dB
2000.0 ... 2020.0 MHz							
Return Loss				10.0	13.3	—	dB
2000.0 ... 2020.0 MHz							
Attenuation	α			20	43	—	dB
50.0 ... 1500.0 MHz				30	37	—	dB
1500.0 ... 1940.0 MHz				27	29	—	dB
2080.0 ... 3000.0 MHz				18	21	—	dB
3000.0 ... 5000.0 MHz				10	12	—	dB
5000.0 ... 6000.0 MHz							

SAW Components **B5072**

SAW Rx filter **2010.00 MHz**

Data sheet



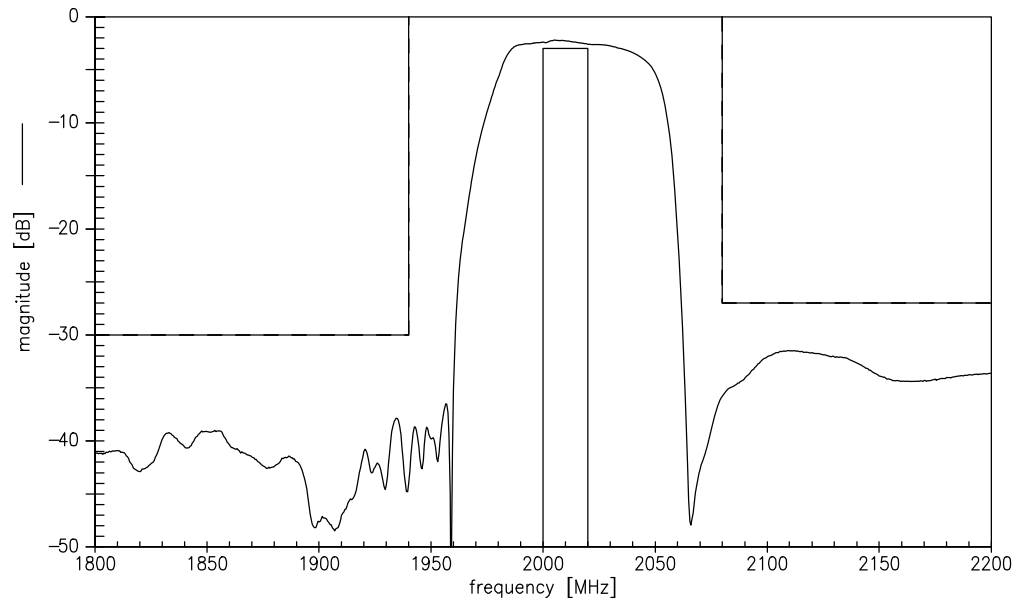
Maximum ratings

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}	50 ¹⁾	V	machine model, 1 pulse
Input power at 2000.0 ... 2020.0 MHz	P _{IN}	7.0	dBm	CW

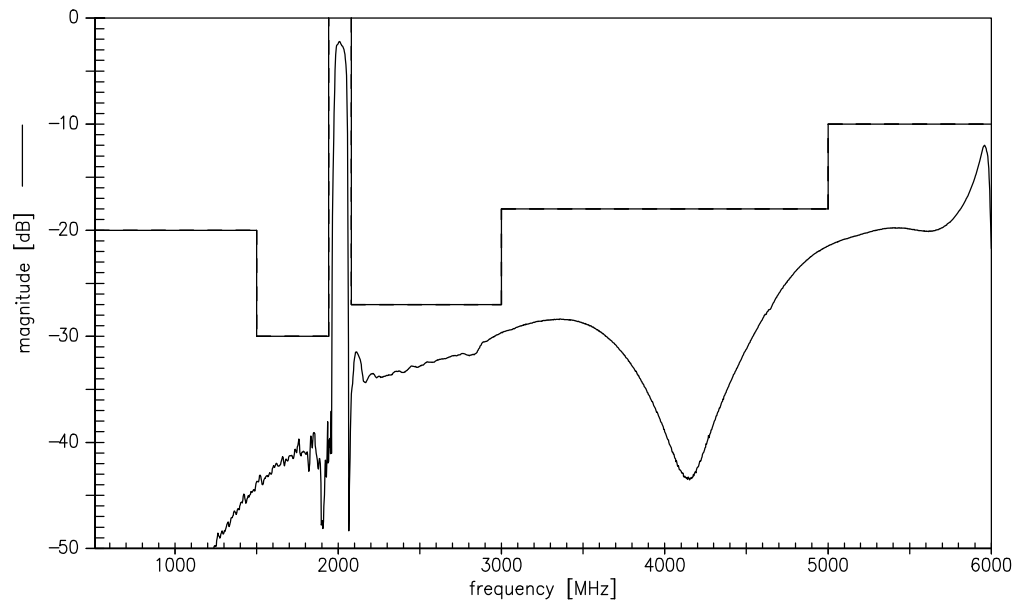
¹⁾ acc. to JESD22-A115A (machine model), 1 negative & 1 positive pulse.



Transfer function



Transfer function (wideband)

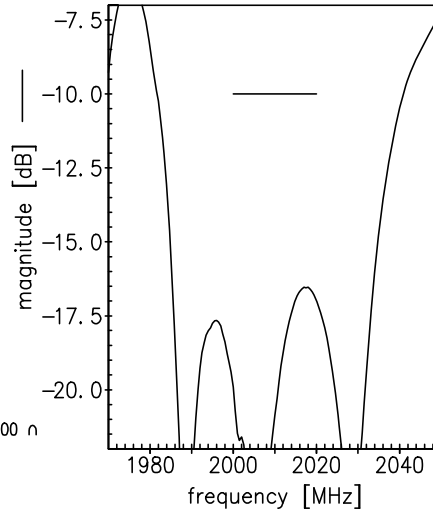
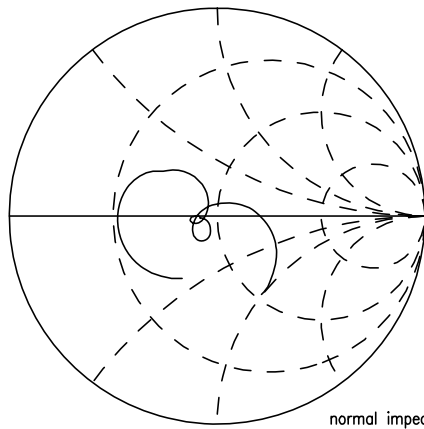


Data sheet

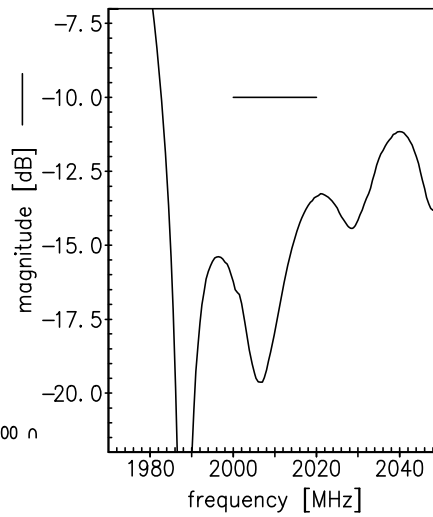
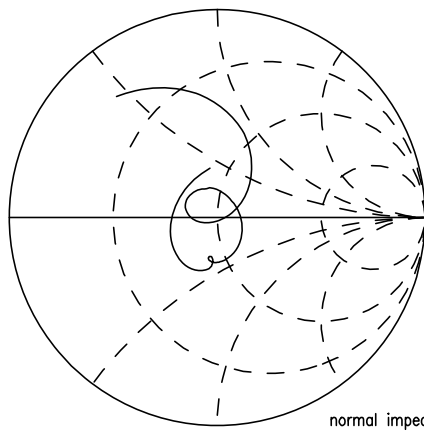


Smith charts

S₁₁ function



S₂₂ function




References

Type	B5072
Ordering code	B39202B5072U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date codes	L_1126
S-parameters	B5072_NB.s2p B5072_WB.s2p
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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