

SAW Components

SAW RF filter for base stations

CDMA 450

Series/type: B5363

Ordering code: B39461B5363U510

Date: Mar 3, 2016

Version: 2.0

RF360 products mentioned within this document are products of RF360 Europe GmbH and other subsidiaries of RF360 Holdings Singapore Pte. Ltd. (collectively, the "RF360 Subsidiaries").



These materials, including the information contained herein, may be used only for informational purposes by the customer. The RF360 Subsidiaries assume no responsibility for errors or omissions in these materials or the information contained herein. The RF360 Subsidiaries reserve the right to make changes to the product(s) or information contained herein without notice. The materials and information are provided on an AS IS basis, and the RF360 Subsidiaries assume no liability and make no warranty or representation, either expressed or implied, with respect to the materials, or any output or results based on the use, application, or evaluation of such materials, including, without limitation, with respect to the non-infringement of trademarks, patents, copyrights or any other intellectual property rights or other rights of third parties.

No use of this documentation or any information contained herein grants any license, whether express, implied, by estoppel or otherwise, to any intellectual property rights, including, without limitation, to any patents owned by QUALCOMM Incorporated or any of its subsidiaries.

Not to be used, copied, reproduced, or modified in whole or in part, nor its contents revealed in any manner to others without the express written permission of RF360 Europe GmbH.

Qualcomm is a trademark of Qualcomm Incorporated, registered in the United States and other countries. Other product and brand names may be trademarks or registered trademarks of their respective owners.

This technical data may be subject to U.S. and international export, re-export, or transfer ("export") laws. Diversion contrary to U.S. and international law is strictly prohibited.



SAW Components

SAW RF filter for base stations CDMA 450

Series/type: B5363

Ordering code: B39461B5363U510

Date: Mar 3, 2016

Version: 2.0

© EPCOS AG 2016. Reproduction, publication and dissemination of this data sheet, enclosures hereto and the information contained therein without EPCOS' prior express consent is prohibited.

EPCOS AG is a TDK Group Company.



SAW Components B5363

SAW RF filter 462.5 MHz

Data sheet

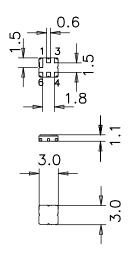


Application

- RF filter for CDMA 450
- Unbalanced to balanced operation
- Usable passband 5 MHz
- No matching required

Features

- Package size 3.0 x 3.0 x 1.1 mm³
- Package code DCC6D
- RoHS compatible
- Approximate weight 0.037 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)
- Moisture Sensitivity Level 1
- Filter surface passivated

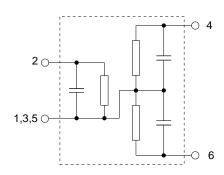


Pin configuration

■ 2 Unbalanced input

■ 4, 6 Balanced output

■ 1, 3, 5 To be grounded





SAW Components B5363

SAW RF filter 462.5 MHz

Data sheet SMD

Characteristics

Temperature range for specification: $T = -10 \,^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$

Terminating source impedance: $Z_S = 50 \Omega$ Terminating load impedance: $Z_L = 100 \Omega$

		B5363			
		min.	typ.	max.	
			@ 25 °C		
Center frequency	f_C	_	462.5	_	MHz
Maximum insertion attenuation	α_{max}				
460.0 465.0 MH		_	2.4	4.0	dB
Amplitude ripple (p-p)	$\Delta \alpha$				
460.0 465.0 MH	Hz	_	1.1	2.3	dB
Input return loss					
460.0 465.0 MH	Ηz	7.0	10.2	_	dB
Output return loss					
460.0 465.0 MH	Hz	7.0	10.5	_	dB
Absolute attenuation	α_{abs}				
10.0 440.0 MH	Ηz	53	63	_	dB
440.0 450.0 MH	Ηz	40	64	_	dB
450.0 454.8 MH	Hz	37	48	_	dB
485.0 495.0 MF	Нz	23	39	_	dB
495.0 530.0 MF	Ηz	42	55		dB
530.0 1200.0 MF	Ηz	48	59	_	dB
1200.0 1500.0 MF	Ηz	40	56	_	dB
1500.0 2200.0 MF	Ηz	30	50	_	dB
2200.0 3000.0 MH	Нz	18	46	_	dB



SAW Components	B5363
SAW RF filter	462.5 MHz
Data sheet	

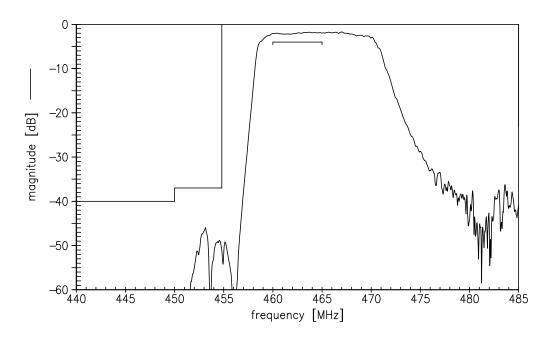
Maximum ratings

Operable temperature range	Т	-45/+125	l°C	
operable temperature range	•	10, 1.20	•	
Storage temperature range	T	-45/+125	l°C	
Otorago tomporataro rango	I stg	10, 1.20	•	
DC voltage	V_{DC}	5	l V	
DO Tomago			•	
Input power	P_{IN}			
	· IIN			
450.0 455.0 MHz		29	dBm	cw, 5000 h, 55 °C
400 0 405 0 1411			l .5	,
460.0 465.0 MHz		30	dBm	cw, 5000 h, 55 °C

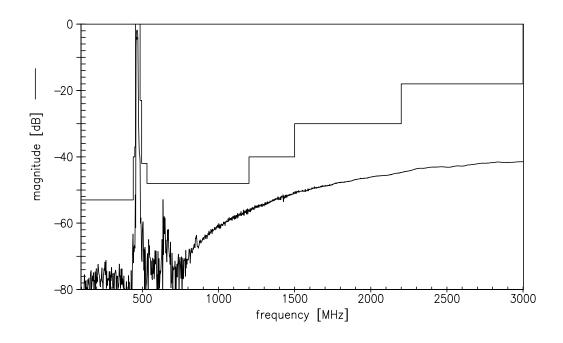




Transfer function (S21, narrowband)



Transfer function (S21, wideband)



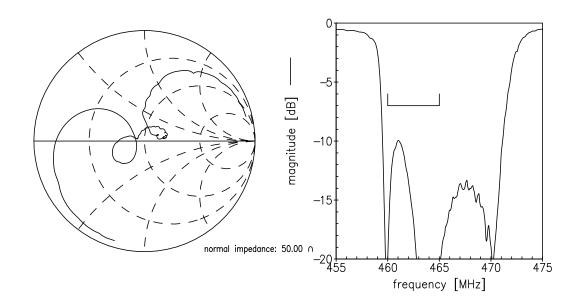


SAW Components B5363
SAW RF filter 462.5 MHz

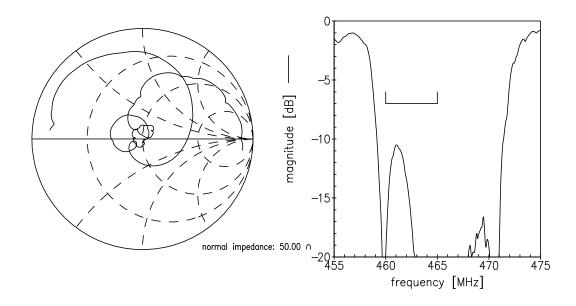
Data sheet

SMD

Smith charts S₁₁ function



S₂₂ function





SAW Components	B5363
SAW RF filter	462.5 MHz
Data sheet	

References

Туре	B5363
Ordering code	B39461B5363U510
Marking and package	C61157-A7-A68
Packaging	F61074-V8228-Z000
Date codes	L_1126
S-parameters	B5363_NB.s3p B5363_WB.s3p see file header for port/pin assignment table
Soldering profile	S_6001
RoHS compatible	RoHS-compatible means that products are compatible with the requirements according to Art. 4 (substance restrictions) of Directive 2011/65/EU of the European Parliament and of the Council of June 8th, 2011, on the restriction of the use of certain hazardous substances in electrical and electronic equipment ("Directive") with due regard to the application of exemptions as per Annex III of the Directive in certain cases.
Matching coils	See Inductor pdf-catalog http://www.tdk.co.jp/tefe02/coil.htm#aname1 and Data Library for circuit simulation http://www.tdk.co.jp/etvcl/index.htm for a large variety of matching coils.

For further information please contact your local EPCOS sales office or visit our webpage at $\underline{www.epcos.com}$.

Published by EPCOS AG Systems, Acoustics, Waves Business Group P.O. Box 80 17 09, 81617 Munich, GERMANY

© EPCOS AG 2015. This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.



SAW Components B5363

SAW RF filter 462.5 MHz

Data sheet



The following applies to all products named in this publication:

- Some parts of this publication contain statements about the suitability of our products for certain areas of application. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application. As a rule, EPCOS is either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether an EPCOS product with the properties described in the product specification is suitable for use in a particular customer application.
- 2. We also point out that in individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or life-saving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.
- 3. The warnings, cautions and product-specific notes must be observed.
- 4. In order to satisfy certain technical requirements, some of the products described in this publication may contain substances subject to restrictions in certain jurisdictions (e.g. because they are classed as hazardous). Useful information on this will be found in our Material Data Sheets on the Internet (www.epcos.com/material). Should you have any more detailed questions, please contact our sales offices.
- 5. We constantly strive to improve our products. Consequently, the products described in this publication may change from time to time. The same is true of the corresponding product specifications. Please check therefore to what extent product descriptions and specifications contained in this publication are still applicable before or when you place an order. We also reserve the right to discontinue production and delivery of products. Consequently are about the result of the result o
 - quently, we cannot guarantee that all products named in this publication will always be available. The aforementioned does not apply in the case of individual agreements deviating from the foregoing for customer-specific products.
- Unless otherwise agreed in individual contracts, all orders are subject to the current version of the "General Terms of Delivery for Products and Services in the Electrical Industry" published by the German Electrical and Electronics Industry Association (ZVEI).
- 7. The trade names EPCOS, Alu-X, CeraDiode, CeraLink, CeraPad, CeraPlas, CSMP, CSSP, CTVS, DeltaCap, DigiSiMic, DSSP, ExoCore, FilterCap, FormFit, LeaXield, MiniBlue, MiniCell, MKD, MKK, MotorCap, PCC, PhaseCap, PhaseCube, PhaseMod, PhiCap, PQSine, SIFERRIT, SIFI, SIKOREL, SilverCap, SIMDAD, SiMic, SIMID, SineFormer, SIOV, SIP5D, SIP5K, TFAP, ThermoFuse, WindCap are trademarks registered or pending in Europe and in other countries. Further information will be found on the Internet at www.epcos.com/trademarks.