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Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



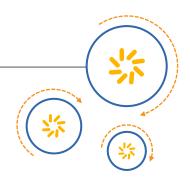






RF360 Europe GmbH

A Qualcomm - TDK Joint Venture



SAW Components

SAW Tx filter

WCDMA Band 4

Series/type: B8801

Ordering code: B39172B8801P810

Date: May 21, 2013

Version: 2.0

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SAW Components B8801

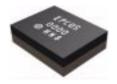
SAW Filter 1732.5 MHz

Data sheet



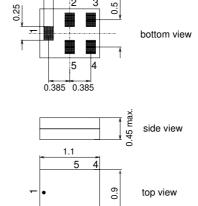
Application

- Low-loss RF filter for mobile telephone WCDMA Band 4 system, transmit path (Tx)
- Suitable for diversity applications
- Impedance 50 ohm input and output
- Unbalanced to unbalanced operation
- Usable passband 45 MHz



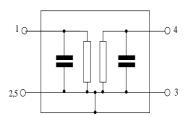
Features

- Package size 1.1 x 0.9 mm²
- Maximum package height 0.45 mm
- RoHS compatible
- Approx. weight 0.001g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)
- Moisture Sensitive Level 3



Pin configuration

- 1 Input, unbalanced
- 4 Output, unbalanced
- 2,3,5 To be grounded





SAW Components B8801

SAW Filter 1732.5 MHz

Data sheet \equiv MD

Characteristics

Temperature range for specification: $T = -30 \,^{\circ}\text{C} \text{ to } +85 \,^{\circ}\text{C}$

 $Z_{S} = 50 \Omega$ $Z_{L} = 50 \Omega$ Terminating source impedance: Terminating load impedance:

			min.	typ. @ 25°C	max.	
Center frequency		f _C	_	1732.5	_	MHz
Maximum insertion attenuation 1710.0 1755.0	MHz	α_{max}	_	1.4	2.0	dB
Amplitude ripple (p-p) 1710.0 1755.0	MHz	$\Delta \alpha$	_	0.7	1.3	dB
Input VSWR 1710.0 1755.0	MHz		_	1.7	2.0	
Output VSWR 1710.0 1755.0	MHz		_	1.7	2.0	
Attenuation		α				
10.0 1574.0 1574.0 1607.0 2110.0 2155.0 2400.0 2500.0 3415.0 3515.0 5125.0 5270.0	MHz MHz MHz MHz MHz MHz		35 35 35 35 35 25	49 46 44 44 38 32	_ _ _ _ _	dB dB dB dB dB
5270.0 6000.0	MHz		28	31	_	dB



SAW Components		B8801
SAW Filter		1732.5 MHz
Data sheet	=MD	

Maximum ratings

Storage temperature range	T _{stg}	-40/+85 ¹⁾	°C	
DC voltage	V_{DC}	5 ²⁾	V	
ESD voltage	V_{ESD}	50 ³⁾	V	Machine Model
Input power at	P_{IN}			Continuous Wave @ 55°C 2000h
1710.0 1755.0 MHz		15	dBm	

¹⁾ extended upperlimit: 168h@125°C acc. to IEC 60068-2-2 Bb

^{2) 168}h Damp Heat Steady State acc. to IEC 60068-2-67 Cy

³⁾ acc. to JESD22-A115B (MM - Machine Model), 10 negative & 10 positive pulse

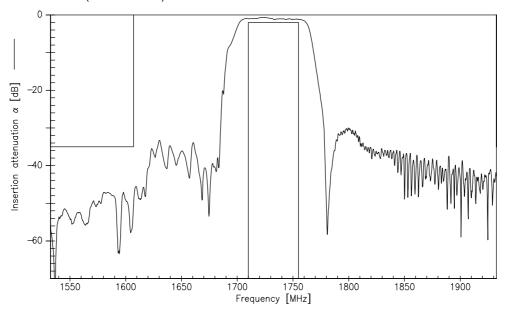




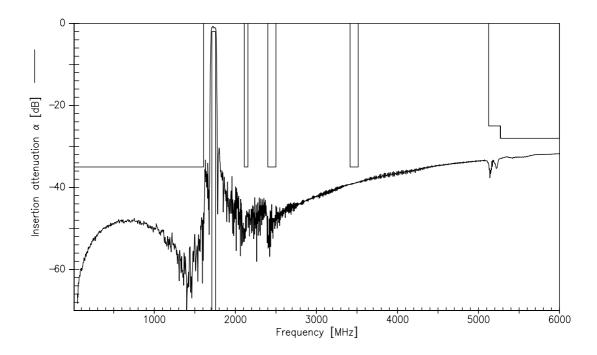
Data sheet



Transfer function (narrrowband)



Transfer function (wideband)





SAW Components

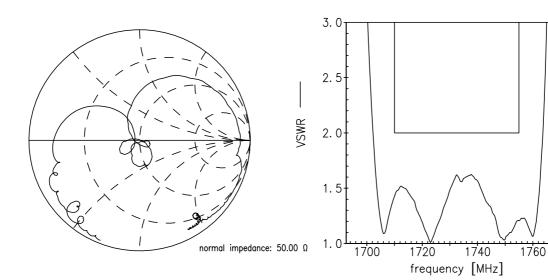
SAW Filter

Data sheet

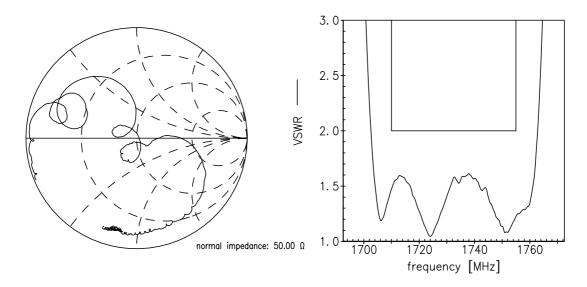
B8801

1732.5 MHz

Smith charts S₁₁ function



S₂₂ function





SAW Components		B8801
SAW Filter		1732.5 MHz
Data sheet	SMD	

References

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Туре	B8801
Ordering code	B39172B8801P810
Marking and package	C61157-A8-A56
Packaging	F61074-V8255-Z000
Date codes	L_1126
S-parameters	B8801_NB.s2p, B8801_WB.s2p 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
Moldability	Before using in overmolding environment, please contact your EPCOS sales office.
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 further information please contact your local EPCOS sales office or visit our webpage at $\underline{www.epcos.com}$.

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