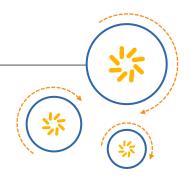


RF360 Europe GmbH

A Qualcomm - TDK Joint Venture



SAW Components

SAW Filter

LTE / WCDMA Band 12

Series/type: B8811

Ordering code: B39731B8811P810

Date: November 12, 2015

Version: 2.3

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B8811

SAW Filter 737.5 MHz

Data sheet



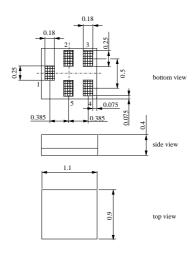
Application

- Low-loss RF filter for mobile telephone LTE and WCDMA Band 12 receive path (RX)
- Usable passband: 17 MHz
- Impedance at input and output 50 Ω
- Unbalanced to unbalanced operation



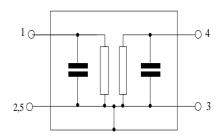
Features

- Package size 1.1 x 0.9 x 0.4 mm³
- 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

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





B8811

SAW Filter 737.5 MHz

Data sheet

Characteristics

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

Terminating source impedance: 50Ω Terminating load impedance: 50 Ω

					min.	typ. @ 25 °C	max.	
Center frequency	y			f _C		737.5	_	MHz
Maximum inserti	on attenua	ation		α_{max}				
	729.0		MHz	max		1.8	2.6	dB
Amplitude ripple	(p-p)			$\Delta \alpha$				
7	729.0	746.0	MHz		_	0.7	1.5	dB
Input VSWR								
7	729.0	746.0	MHz			2.0	2.5	
Output VSWR								
7	729.0	746.0	MHz			2.0	2.5	
Attenuation				α				
	10.00				46	55	_	dB
6	599.00				46	48	_	dB
7	716.00	722.00			14	21	_	dB
7	722.00	727.00	MHz		1.6	2.1	_	dB
7	776.00	793.00	MHz		27	37	_	dB
7	793.00	805.00	MHz		35	47	_	dB
8	305.00	1710.0	MHz		30	47	_	dB
1	1710.0	1755.0	MHz		41	46	_	dB
1	1755.0	1850.0	MHz		30	46	_	dB
1	1850.0	1910.0			41	45	_	dB
1	1910.0				30	43	_	dB
2		2238.0			36	42	_	dB
2	2238.0	2400.0	MHz		30	42	_	dB
2	2400.0	2500.0	MHz		35	41	_	dB
2	2500.0	4900.0	MHz		30	37	_	dB
4	4900.0	5950.0	MHz		24	34	_	dB
5	5950.0	6000.0	MHz		21	33	_	dB



SAW Components SAW Filter 737.5 MHz

Data sheet

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AMaximum ratings

Storage temperature range	Т.	-40/+85 ¹⁾	°C	
•	I _{stg}		1,7	
DC voltage	V_{DC}	5 ²⁾	V	
ESD voltage	V_{ESD}	100 ³⁾	V	Machine Model
	V_{ESD}	275 ⁴⁾	V	Human Body Model
	V_{ESD}	600 ⁵⁾	V	Charged Device Model
Input power				
729.0746.0 MHz	P_{IN}	10	dBm	continuous wave

¹⁾ extended upper limit: 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 pulses.

⁴⁾ acc. to JESD22-A114F (HBM - Human Body Model), 1 negative & 1 positive pulse.

⁵⁾ acc. to JESD22-C101C (CDM - Field Induced Charged Device Model), 3 negative & 3 positive pulses.

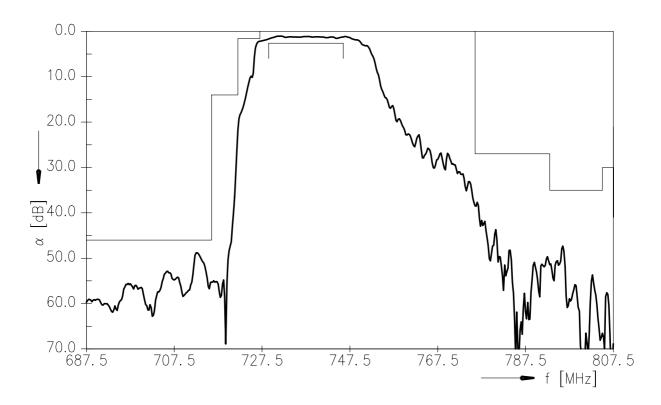


SAW Components B8811 **SAW Filter** 737.5 MHz

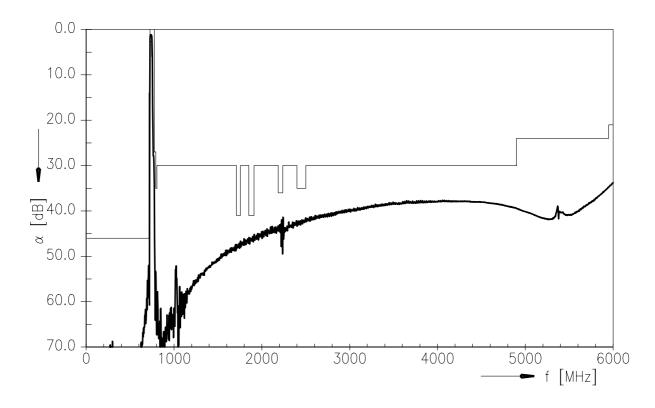
Data sheet



Frequency response (narrowband)



Frequency response (wideband)





B8811

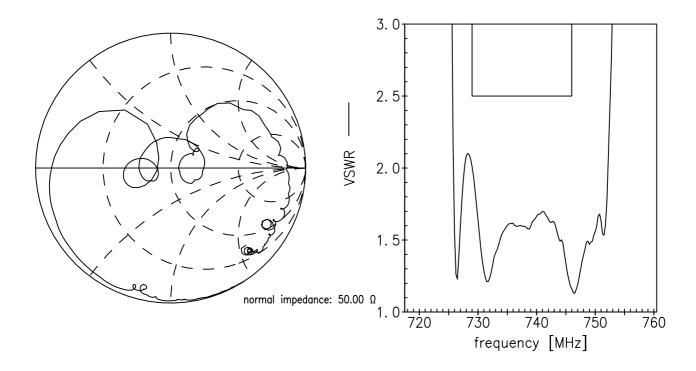
SAW Filter 737.5 MHz

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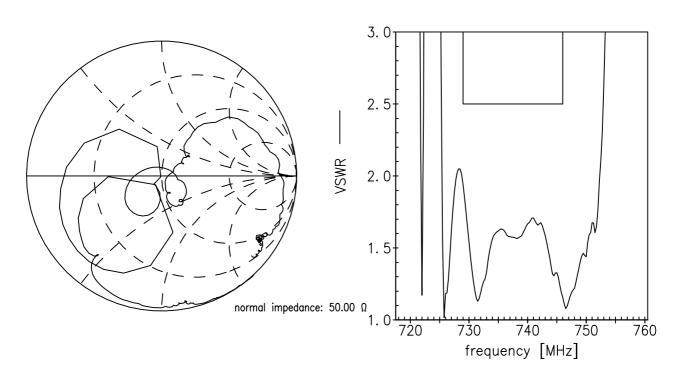
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Smith chart

S₁₁ function



S₂₂ function





SAW Components SAW Filter 737.5 MHz

Data sheet



References

Туре	B8811			
Ordering code	B39731B8811P810			
Marking and package	C61157-A8-A56			
Packaging	F61074-V8255-Z000			
Date codes	L_1126			
S-parameters	B8811_NB.s2p, B8811_WB.s2p			
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 8 th , 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 http://www.tdk.co.jp/tefe02/coil.htm#aname1 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 www.epcos.com.

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