



SAW Components

SAW RF filter for Base Stations

GSM 1800

Series/type:	B5085
Ordering code:	B39172-B5085-U410
Date:	April 07, 2008
Version:	1.1

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SAW Components	B5085
SAW RF filter	1747.5 MHz

Preliminary Data-sheet



Revision History: Changes compared to previous iteration issue

ISSUE	ORIGINATOR	DETAIL SPEC CHANGES	DATE
DGLI15AS01			
0.1	S. Chamaly	Initial release	19.11.2007
DGLI15AS02			
0.2	S. Chamaly	Package change to DCC6C	21.11.2007
B5085			
1.0	S. Chamaly	Preliminary data-sheet	20.03.2008
B5085			
1.1	S. Chamaly	Introduction of specification above 2GHz	07.04.2008

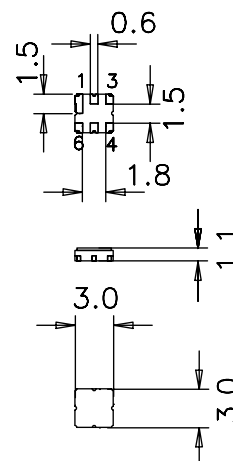
Application

- RF filter for GSM1800 base station
- Low ripple
- Small size
- Single ended operation on 50 Ω



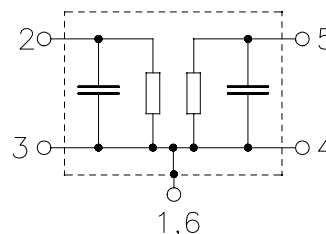
Features

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



Pin configuration

- 2 Input
- 5 Output
- 1, 3, 4, 6 To be grounded



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Characteristics

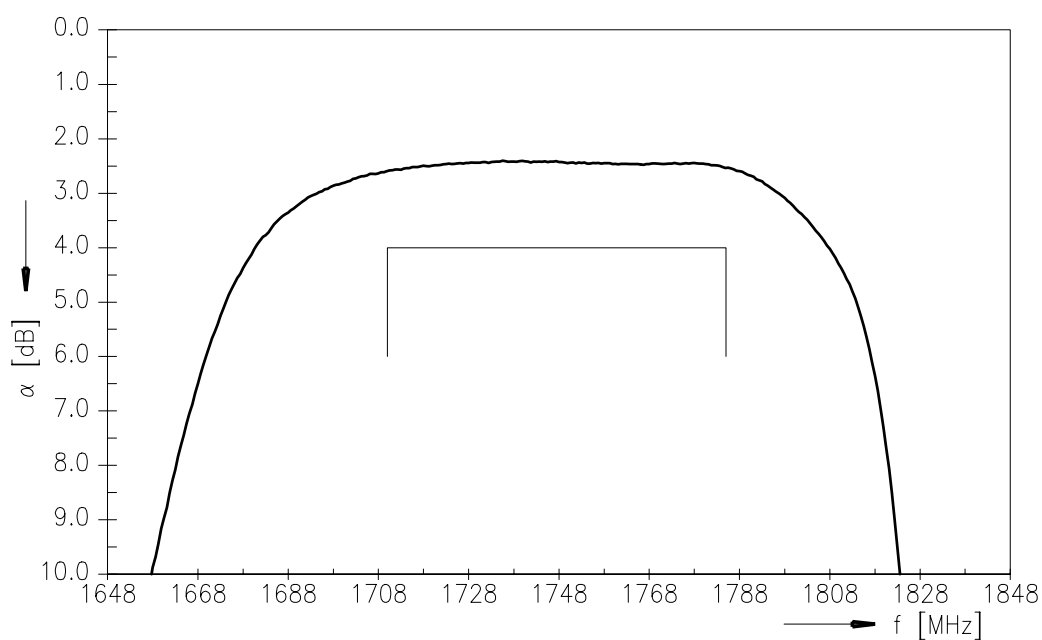
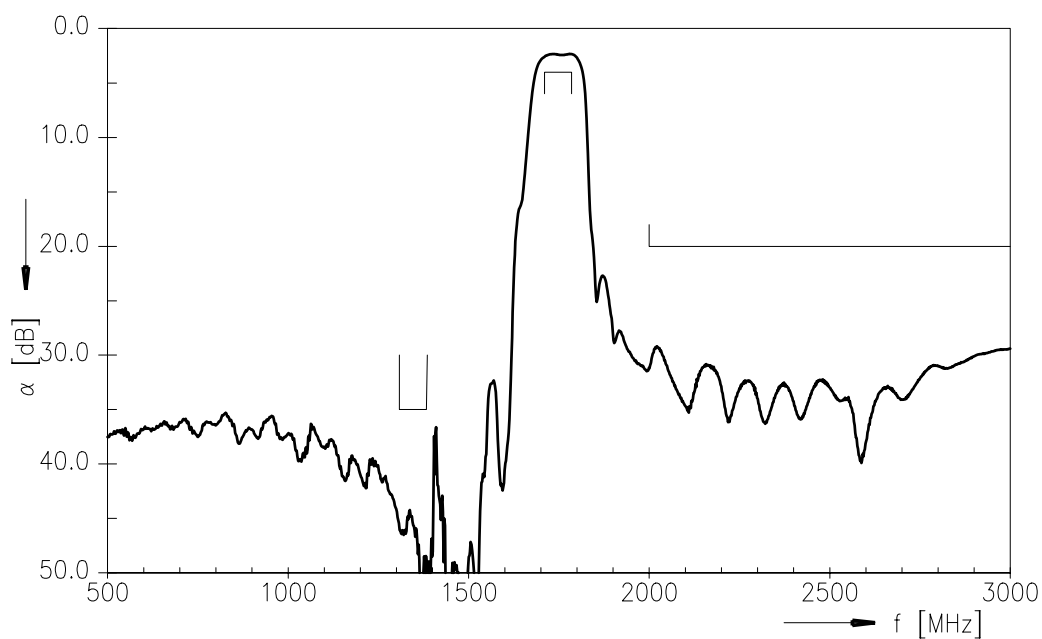
Temperature range for specification: $T = -35$ to $+85$ °C
 Terminating source impedance: $Z_S = 50\ \Omega$ (unbalanced)
 Terminating load impedance: $Z_L = 50\ \Omega$ (unbalanced)

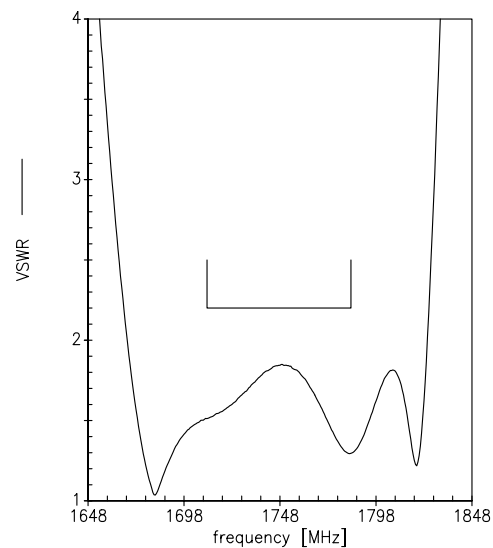
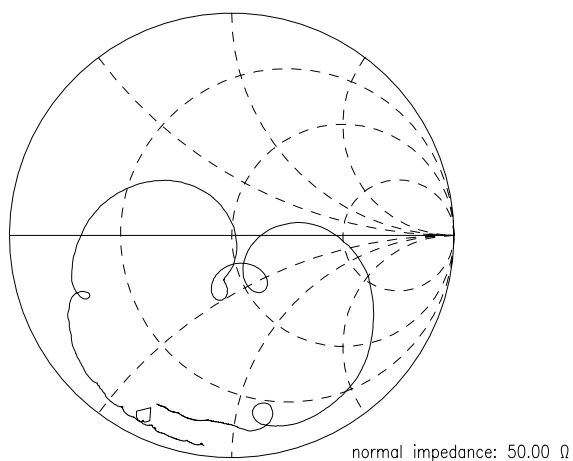
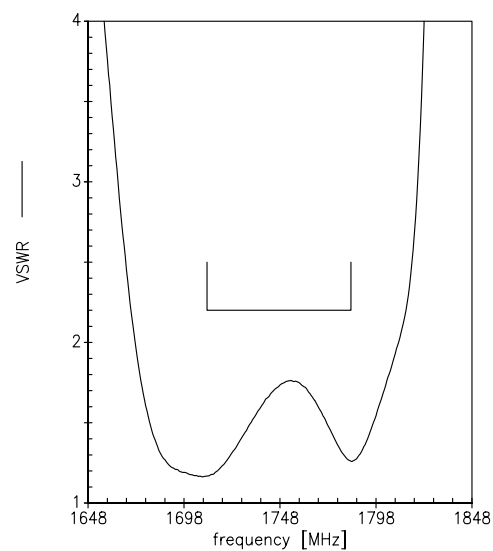
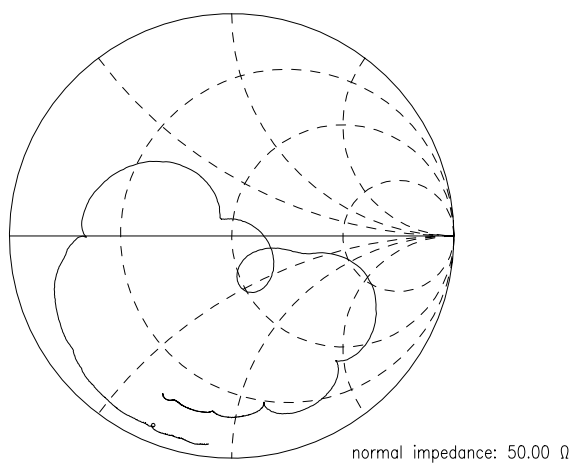
		B5085			
		min.	typ. @ 25 °C	max.	
Center frequency	f_C	—	1747.5	—	MHz
Minimum insertion attenuation 1710.0 ... 1785.0 MHz	$\alpha_{\min}$	—	2.5	3.0	dB
Maximum insertion attenuation 1710.0 ... 1785.0 MHz	$\alpha_{\max}$	—	3.0	4.0	dB
Amplitude ripple (p-p) 1710.0 ... 1785.0 MHz	$\Delta\alpha$	—	0.5	1.0	dB
Input VSWR 1710.0 ... 1785.0 MHz		—	1.9 : 1	2.2:1	
Output VSWR 1710.0 ... 1785.0 MHz		—	1.8 : 1	2.2:1	
Attenuation 1308.0 ... 1383.0 MHz	α	35.0	44.0	—	dB
2000.0 ... 3000.0 MHz		20.0	28.0	—	dB
Temperature coefficient of frequency	TC_f	—	-64	—	ppm/K

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Maximum ratings

Operable temperature range	T	−35/+85	°C	
Storage temperature range	T _{stg}	−40/+85	°C	
DC voltage	V _{DC}	0	V	

Transfer function

Transfer function (wideband)


Smith charts

S₂₂ function


SAW Components**B5085****SAW RF filter****1747.5 MHz**

Preliminary Data-sheet

**References**

Type	B5085
Ordering code	B39172-B5085-U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8168-Z000
Date code	L_1126
S-parameters	
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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