

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 F	RF filter		1747.5 MHz
Prelimir	nay Data-sheet		
Revision	History: Changes	s compared to previous iteration issue	
ISSUE	ORIGINATOR	DETAIL SPEC CHANGES	DATE
DGLI15A	S01		
0.1	S. Chamaly	Initial release	19.11.2007
DGLI15A 0.2	S02 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



SAW Components B5085

SAW RF filter 1747.5 MHz

Preliminay Data-sheet



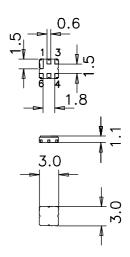
Application

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



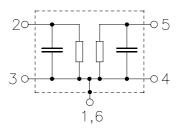
Features

- 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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Preliminay Data-sheet



Characteristics

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

		B5085		
	min.	typ. @ 25 °C	max.	
f _C	_	1747.5	_	MHz
α_{min}				
Z	_	2.5	3.0	dB
$\alpha_{\sf max}$				
Z	_	3.0	4.0	dB
Δα				
Z	_	0.5	1.0	dB
z	_	1.9 : 1	2.2:1	
<u>z</u>	_	1.8 : 1	2.2:1	
01				
α Z	35.0	44.0	_	dB
Z	20.0	28.0	_	dB
TO		0.4		ppm/ł
	$lpha_{ m min}$ $lpha_{ m max}$	f_{C} — α_{min} — α_{max} — α_{max	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

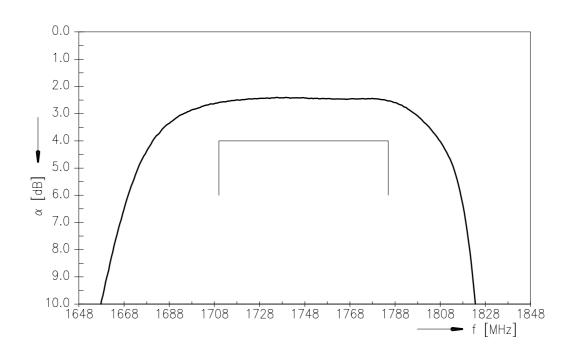


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Preliminay Data-sheet	=MI			
Maximum ratings				
Operable temperature range	Т	-35/+85	°C	
Storage temperature range	T_{stg}	-40/+85	°C	
DC voltage	V_{DC}	0	V	

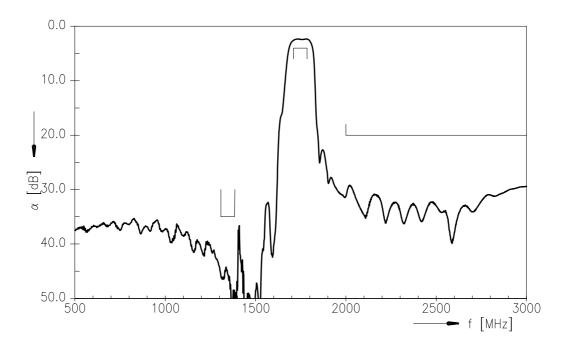




Preliminay Data-sheet Transfer function

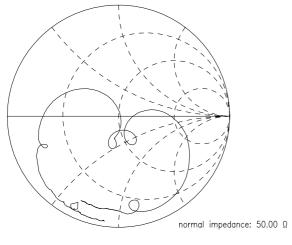


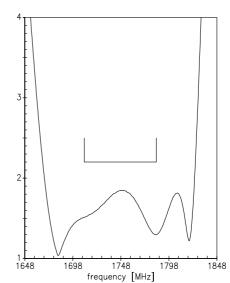
Transfer function (wideband)



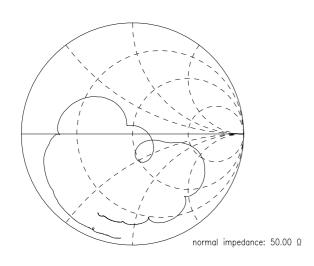


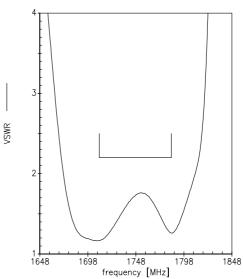
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S₂₂ function







SAW Components	B5085
SAW RF filter	1747.5 MHz

Preliminay Data-sheet



References

Туре	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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