

# SAW Components

Data Sheet B7722, Pb-Free





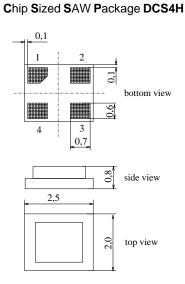
SAW Components	B7722
Low-Loss Filter	1575,42 MHz
Data Sheet	

## Features

- Low loss RF filter for GPS receivers
- Unbalanced to unbalanced operation
- Low amplitude ripple
- Package for Surface Mounted Technology (SMT)
- Pb-free

#### Terminals

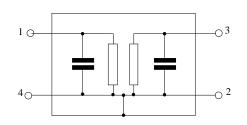
• Ni, gold-plated



## Dimensions in mm, approx. weight 0,01 g

## **Pin configuration**

1	Input
3	Output
2,4	Ground



Туре	Ordering code	Marking and Package Packing	
		according to	according to
B7722	B39162-B7722-K710	C61157-A7-A136	F61074-V8189-Z000

Electrostatic Sensitive Device (ESD)

#### **Maximum ratings**

Operable temperature range	Т	- 40/+ 85	°C	
Storage temperature range	T <sub>stg</sub>	- 40/+ 85	°C	
DC voltage	V <sub>DC</sub>	3	V	
ESD voltage	$V^*_{ESD}$	50*	V	Machine Model, 10 pulses
Input power max.				
1573,42 1577,42 MHz	$P_{\rm IN}$	3	dBm	source and load impedance 50 $\Omega$
50,01460 and 1710 4000 MHz	P <sub>IN</sub>	15	dBm	continuous wave signal

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\* - acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses

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Characteristi	cs						
Terminating s	mperature range: ource impedance: pad impedance:	Z <sub>S</sub>	= -30 $= 50 \Omega$ $= 50 \Omega$				
				min.	typ.	max.	
Nominal freq	uency		f <sub>N</sub>	_	1575,42	_	MHz
Maximum ins	sertion attenuatio	n	$\alpha_{max}$				
	1573,42MHz	1577,42 MHz	max	_	1,5	2,1	dB
	1573,42MHz	1577,42MHz*)		_	1,5	1,8	dB
	1574,42MHz	1576,42MHz**	)	—	1,4	1,8	dB
Amplitude rij	ople in passband	(p-p)	Δα				
	1573,42MHz	1577,42 MHz			0,1	0,5	dB
Group delay			τ				
	1573,42	1577,42 MHz			18	50	ns
Bandwidth		$\alpha_{rel} \leq 3 \text{ dB}$	B <sub>3dB</sub>	10	38	—	MHz
Attenuation			α				
	100,0MHz	824,0 MHz		35	42	—	dB
	824,0MHz	850,0 MHz		40	45	—	dB
	850,0MHz	1460,0 MHz		35	43	—	dB
	1648,0 MHz	1660,0 MHz		25	30	—	dB
	1660,0 MHz	1710,0 MHz		27	35	—	dB
	1710,0 MHz	1750,0 MHz		33	40	—	dB
	1750,0 MHz	1850,0 MHz		35	40	—	dB
	1850,0 MHz	1910,0 MHz		40	48	—	dB
	1910,0 MHz	2500,0 MHz		35	44	—	dB
	2500,0 MHz	3500,0 MHz		30	35	—	dB
VSWR							
	1573,42MHz	1577,42 MHz		—	1,4	1,8	

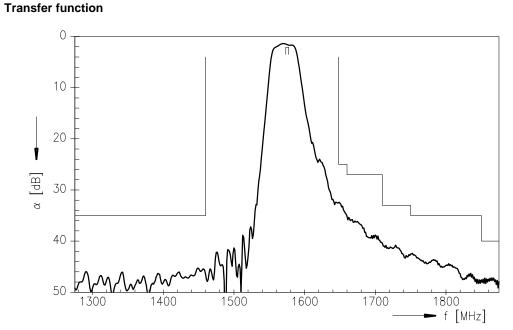
\*) T<sub>A</sub> = 20 °C \*\*) T<sub>A</sub> = -30 ... +70 °C

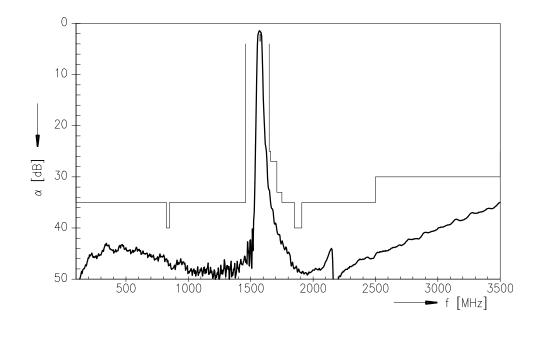
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