

SAW Components

Data Sheet B7722, Pb-Free





Data Sheet

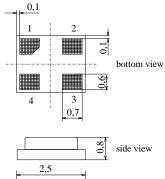
Features

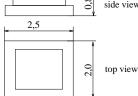
- Low loss RF filter for GPS receivers
- Unbalanced to unbalanced operation
- Low amplitude ripple
- Package for Surface Mounted Technology (SMT)
- Pb-free

Terminals

Ni, gold-plated

Chip Sized SAW Package DCS4H

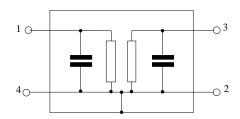




Dimensions in mm, approx. weight 0,01 g

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

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



Data Sheet

Characteristics

Operating temperature range: $T_{\rm A} = -30 \dots +85 \,^{\circ}{\rm C}$ Terminating source impedance: $Z_{\rm S} = 50 \,\Omega$ unbal. Terminating load impedance: $Z_{\rm L} = 50 \,\Omega$ unbal.

			min.	typ.	max.	
Nominal frequency		f _N	_	1575,42	_	MHz
Maximum insertion attenuation		α_{max}				
1573,42MHz 1577,42 MHz				1,5	2,1	dB
	1577,42 WHz*)		_	1,5 1,5	1,8	dB
	1577,42WHz**)		_	1,3 1,4		dВ
1374,42101112	1570,42101112)		_	1,4	1,8	ub
Amplitude ripple in passband (p-p)						
1573,42MHz	1577,42 MHz		_	0,1	0,5	dB
Group delay		τ				
•	1577,42 MHz		_	18	50	ns
Bandwidth a	rel ≤ 3 dB	B _{3dB}	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
	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
•	3500,0 MHz		30	35	_	dB
VSWR						
1573,42MHz	1577,42 MHz		_	1,4	1,8	

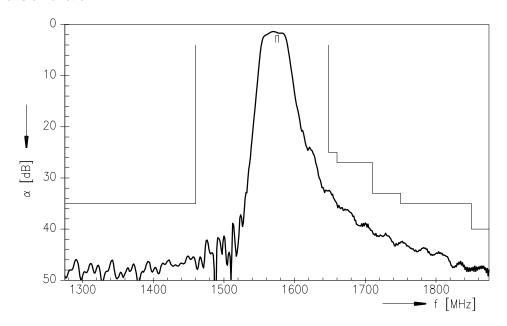
^{*)} $T_A = 20 \,^{\circ}\text{C}$

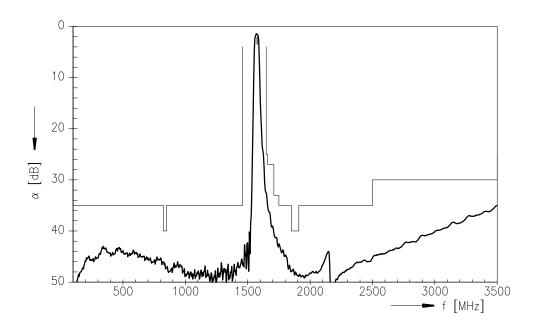
^{**)} $T_A = -30 \dots +70 \,^{\circ}\text{C}$



Data Sheet

Transfer function







Data Sheet

Published by EPCOS AG Surface Acoustic Wave Components Division, SAW MC PD P.O. Box 80 17 09, 81617 Munich, GERMANY

© EPCOS AG 2005. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.