EPCOS

SAW Components

Data Sheet B7722



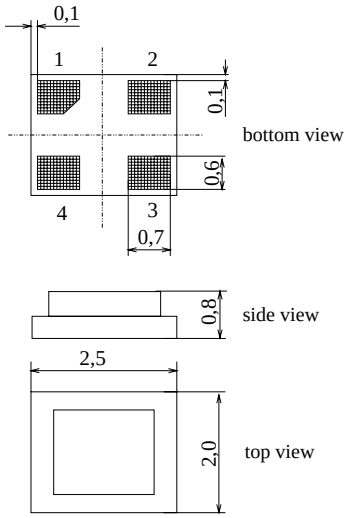
Chip **S**ized **S**AW **P**ackage

Features

- Low loss RF filter for GPS receivers
- Unbalanced to unbalanced operation
- Low amplitude ripple
- Package for **S**urface **M**ounted **T**echnology **(SMT)**

Terminals

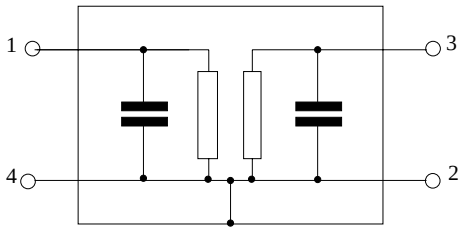
- Ni, gold-plated



Dimensions in mm, approx. weight 0,01 g

Pin configuration

1	Input
3	Output
2,4	Ground



Type	Ordering code	Marking and Package according to	Packing according to
B7722	B39162-B7722-C510	C61157-A7-A80	F61074-V8111-Z000

Electrostatic **S**ensitive **D**evice (**ESD**)

Maximum ratings

Operable temperature range	T	– 40/+ 85	˚C	
Storage temperature range	T_{stg}	– 40/+ 85	˚C	
DC voltage	V_{DC}	3	V	
Input power max. 1573,42 ... 1577,42 MHz	P_{IN}	3	dBm	source and load impedance 50 Ω continuous wave signal
50,0...1460 and 1710 ... 4000 MHz	P_{IN}	15	dBm	

Data Sheet

Characteristics

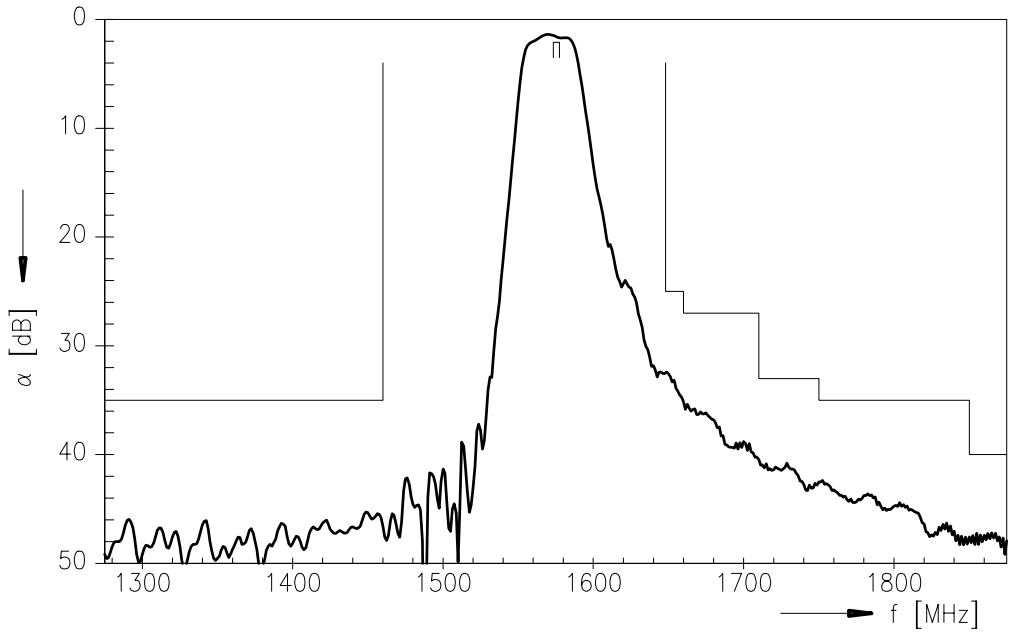
Operating temperature range: T_A = -30 ... +85 °C
Terminating source impedance: Z_S = 50 Ω unbal.
Terminating load impedance: Z_L = 50 Ω unbal.

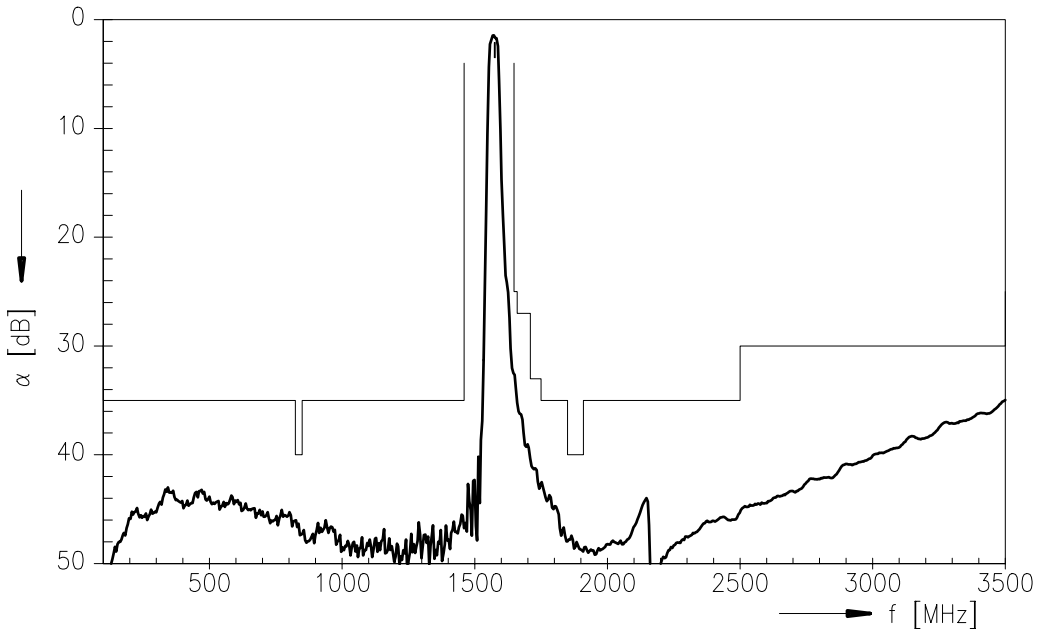
		min.	typ.	max.	
Nominal frequency	f_N	—	1575,42	—	MHz
Maximum insertion attenuation	α_{max}				
1573,42MHz ... 1577,42 MHz		—	1,5	2,1	dB
1573,42MHz ... 1577,42MHz*)		—	1,5	1,8	dB
1574,42MHz ... 1576,42MHz**)		—	1,4	1,8	dB
Amplitude ripple in passband (p-p)	$\Delta\alpha$				
1573,42MHz ... 1577,42 MHz		—	0,1	0,5	dB
Group delay	τ				
1573,42 ...1577,42 MHz		—	18	50	ns
Bandwidth $\alpha_{rel} \leq 3$ 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
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_A = 20 °C

**) T_A = -30 ... +70 °C

Transfer function





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