



**THE DATASHEET OF  
B39162-B7722-C510**





# SAW Components

Data Sheet B7722





**SAW Components**

**B7722**

**Low-Loss Filter**

**1575,42 MHz**

**Data Sheet**

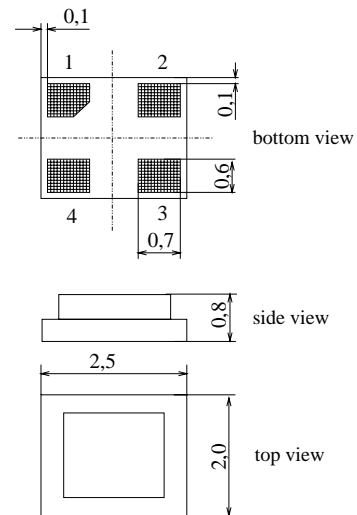
**Chip Sized SAW Package**

**Features**

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

**Terminals**

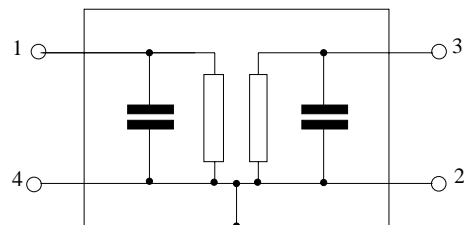
- Ni, gold-plated



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 Sensitive Device (ESD)**

**Maximum ratings**

Operable temperature range	$T$	- 40/+ 85	°C	source and load impedance 50 $\Omega$ continuous wave signal
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	
50,0...1460 and 1710 ... 4000 MHz	$P_{IN}$	15	dBm	



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**Characteristics**

Operating temperature range:  $T_A = -30 \dots +85 \text{ }^\circ\text{C}$   
 Terminating source impedance:  $Z_S = 50 \text{ } \Omega \text{ unbal.}$   
 Terminating load impedance:  $Z_L = 50 \text{ } \Omega \text{ unbal.}$

			min.	typ.	max.	
<b>Nominal frequency</b>	$f_N$		—	1575,42	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{\max}$					
	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
<b>Amplitude ripple in passband (p-p)</b>	$\Delta\alpha$					
	1573,42MHz ... 1577,42 MHz		—	0,1	0,5	dB
<b>Group delay</b>	$\tau$					
	1573,42 ... 1577,42 MHz		—	18	50	ns
<b>Bandwidth</b>	$\alpha_{\text{rel}} \leq 3 \text{ dB}$	$B_{3\text{dB}}$	10	38	—	MHz
<b>Attenuation</b>		$\alpha$				
	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
<b>VSWR</b>						
	1573,42MHz ... 1577,42 MHz		—	1,4	1,8	

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

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



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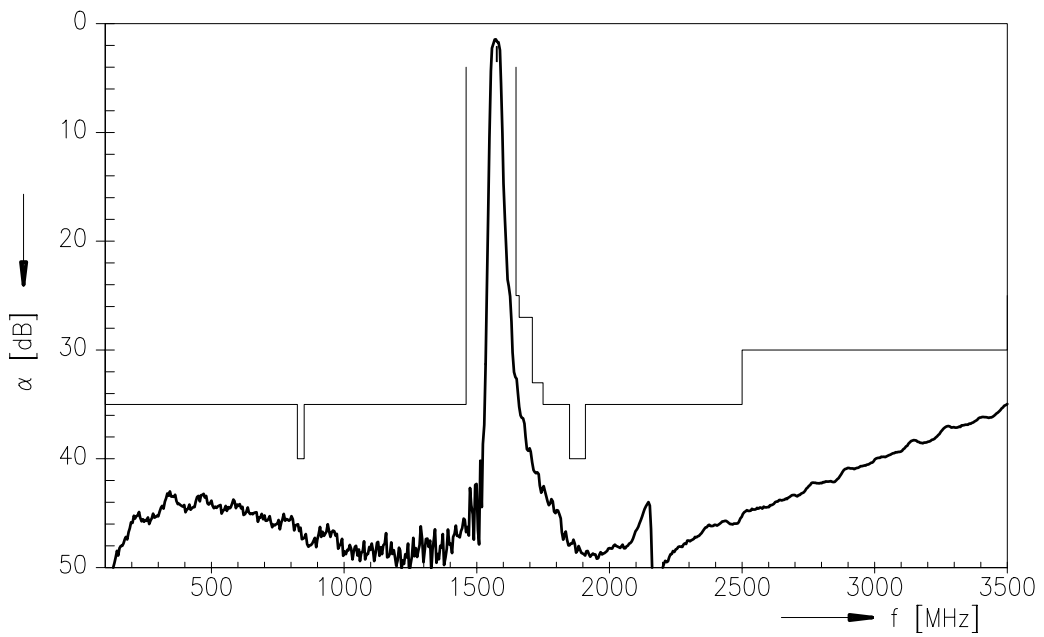
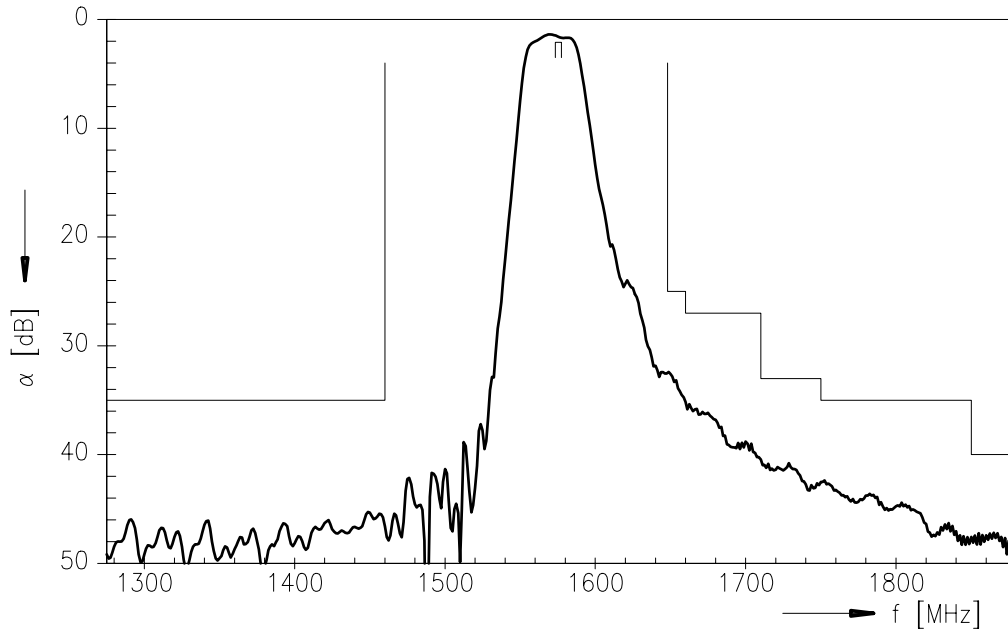
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Transfer function





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