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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# *SAW Components*

*Data Sheet B7708*

Data Sheet

A large, stylized, 3D-rendered graphic of the EPCOS logo. The letters "EPCOS" are rendered in a white, glowing, sans-serif font, appearing to be part of a larger, curved structure that resembles a stylized globe or a series of overlapping planes. The background is dark and textured.



**SAW Components**

**B7708**

**Low Loss Filter**

**1575,42 MHz**

**Data Sheet**



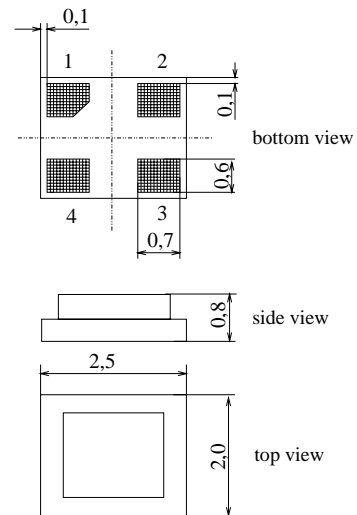
**Features**

- Low loss RF filter for GPS receivers
- Usable passband 2,0 MHz
- Low amplitude ripple
- Package for **Surface Mounted Technology (SMT)**

**Terminals**

- Ni, gold-plated

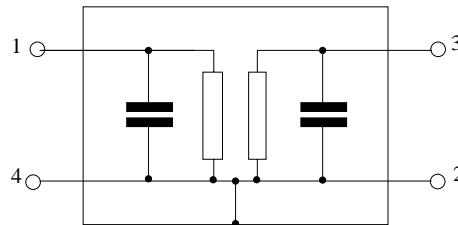
Chip sized SAW package



Dimensions in mm, approx. weight 0,01 g

**Pin configuration**

- 1 Input, unbalanced
- 3 Output, unbalanced
- 2, 4 To be grounded, Case Ground



Type	Ordering code	Marking and Package according to	Packing according to
B7708	B39162-B7708-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	$V_{DC}$	5	V	
Input power max. 1574,3 ... 1576,7 MHz	$P_{IN}$	3	dBm	
50,0...1535,5 and 1625,5 ... 6000 MHz	$P_{IN}$	15	dBm	



**Characteristics**

Operating temperature range:  $T = -40\text{ °C to }+85\text{ °C}$   
 Terminating source impedance:  $Z_S = 50\ \Omega$   
 Terminating load impedance:  $Z_L = 50\ \Omega$

		min.	typ.	max.	
<b>Center frequency</b>	$f_C$	—	1575,42	—	MHz
<b>Maximum insertion attenuation</b>	$\alpha_{max}$	—	2,4	3,5	dB
1574,22 ... 1576,62 MHz					
<b>Amplitude ripple (p-p)</b>	$\Delta\alpha$	—	0,1	1,0	dB
1574,22 ... 1576,62 MHz					
<b>Group delay</b>	$\tau$	—	35	50	ns
1574,22 ... 1576,62 MHz					
<b>Attenuation</b>	$\alpha$				dB
50,0 ... 1535,0 MHz		35	42	—	
1625,0 ... 1630,0 MHz		30	44	—	
1630,0 ... 3500,0 MHz		35	40	—	
3500,0 ... 4000,0 MHz		20	35	—	
4000,0 ... 6000,0 MHz		10	20	—	
<b>Return loss</b>					dB
1574,22 ... 1576,62 MHz		11,0	19,0	—	
<b>VSWR</b>					
1574,22 ... 1576,62 MHz		—	1,25	1,8	



SAW Components

B7708

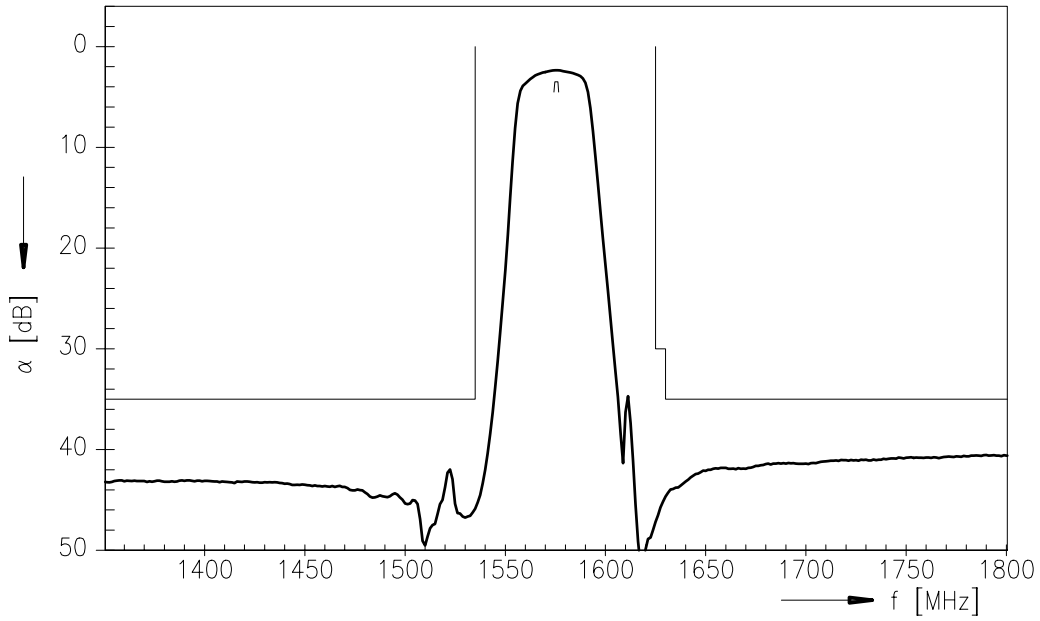
Low Loss Filter

1575,42 MHz

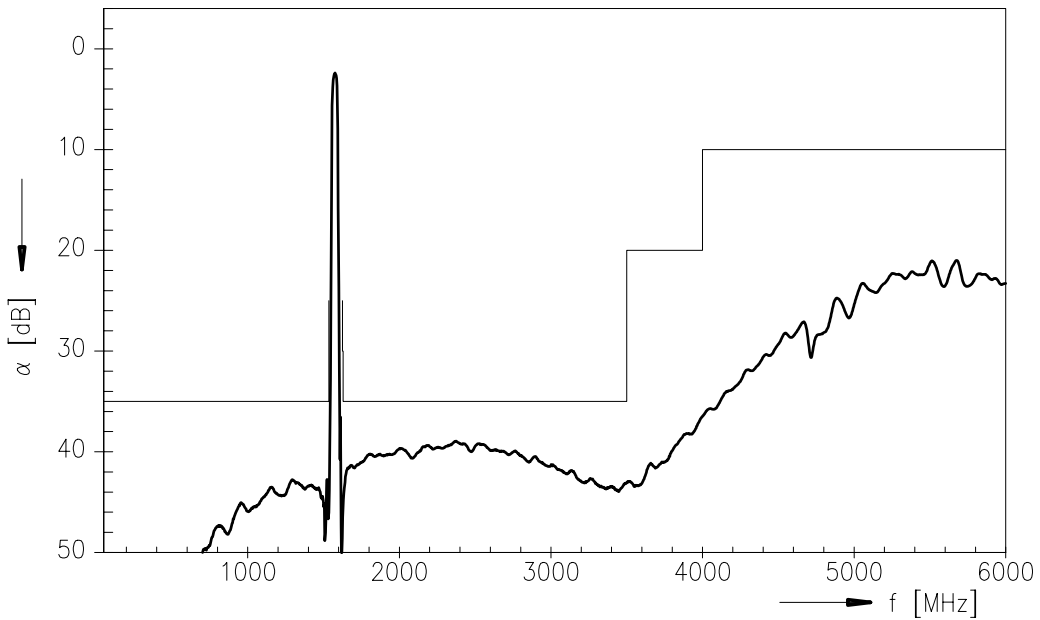
Data Sheet



Transfer function



Transfer function (wide band)





**SAW Components**

**B7708**

**Low Loss Filter**

**1575,42 MHz**

Data Sheet



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