



SAW Components

Data Sheet B7708

Data Sheet

A large, stylized, 3D-rendered graphic of the EPCOS logo. The letters "EPCOS" are rendered in a bold, sans-serif font, appearing to be part of a curved, metallic-looking structure. The background is dark and textured, suggesting a globe or a complex circuit board layout.



SAW Components

B7708

Low Loss Filter

1575,42 MHz

Data Sheet



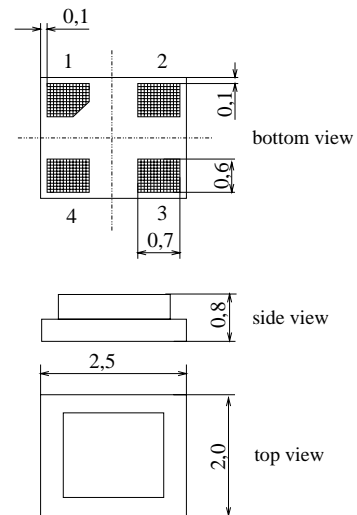
Features

- 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

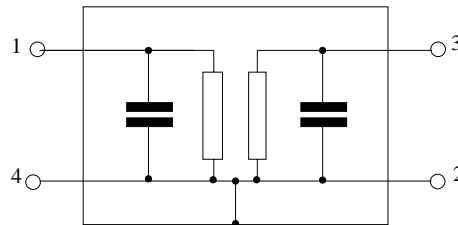
Chip sized SAW package



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 Ω 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	



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



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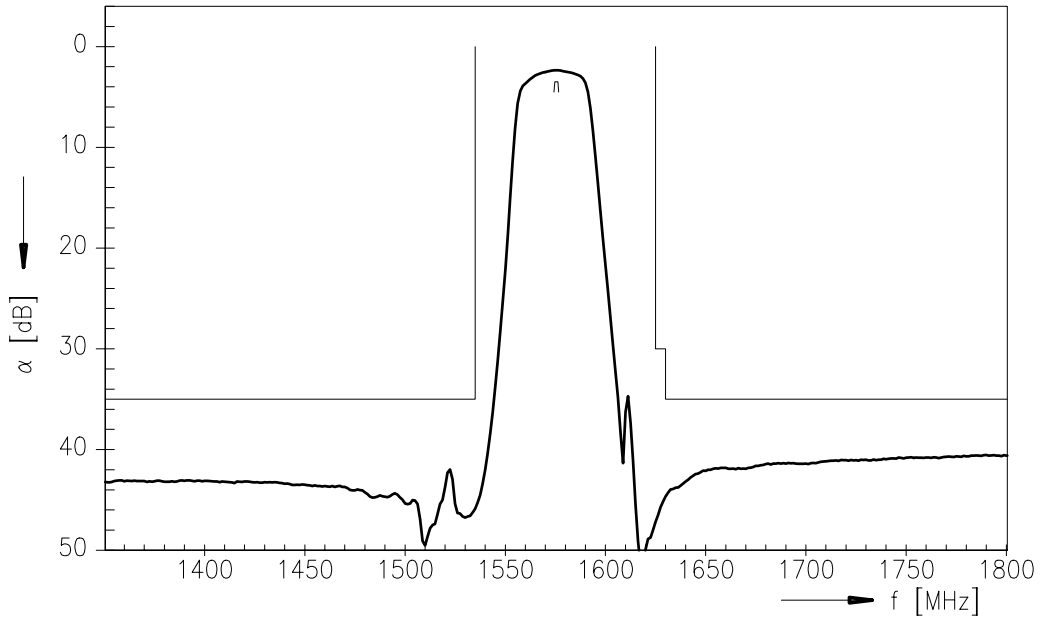
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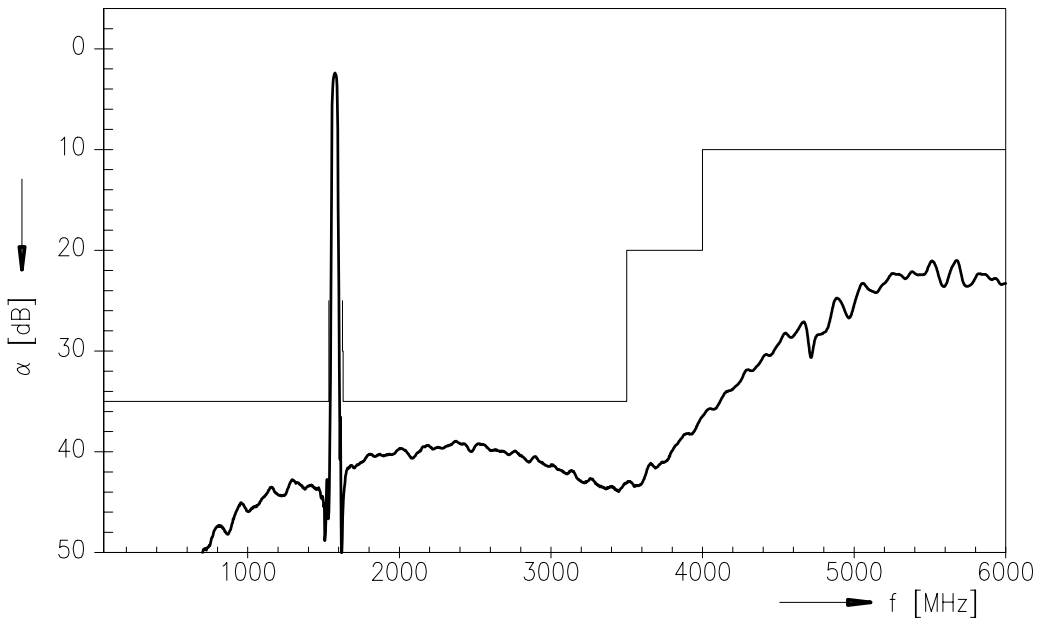
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Transfer function



Transfer function (wide band)





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Surface Acoustic Wave Components Division, SAW MC IS

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