



SAW Components

Data Sheet B7708, Pb-Free

Data Sheet

An abstract graphic featuring the word "EPCOS" in large, glowing, 3D letters. The letters are white with a blue glow and are positioned diagonally across the frame. In the background, there is a faint, stylized globe and some circuitry patterns, all in a dark, monochromatic color scheme.



SAW Components

B7708

Low Loss Filter

1575,42 MHz

Data Sheet



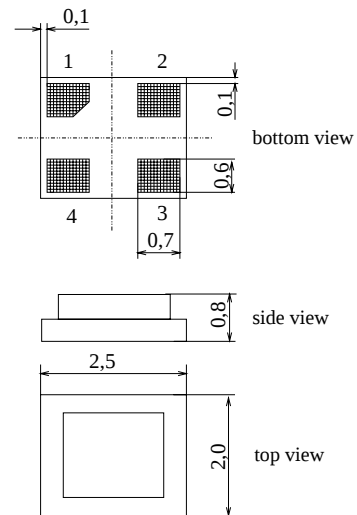
Features

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

Terminals

- Ni, gold-plated

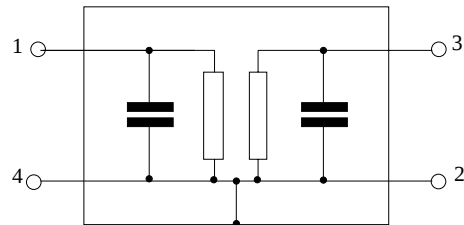
Chip Sized SAW Package DCS4H



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-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_{DC}	5	V	
ESD voltage	V_{ESD}^*	50*	V	
Input power max.				
1574,3 ... 1576,7 MHz	P_{IN}	3	dBm	source and load impedance 50 Ω continuous wave signal
50,0...1535,5 and 1625,5 ... 6000 MHz	P_{IN}	15	dBm	

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



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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	$\alpha_{\max}$				
	1574,22 ...1576,62 MHz	—	2,4	3,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
	1574,22 ...1576,62 MHz	—	0,1	1,0	dB
Group delay	τ				
	1574,22 ...1576,62 MHz	—	35	50	ns
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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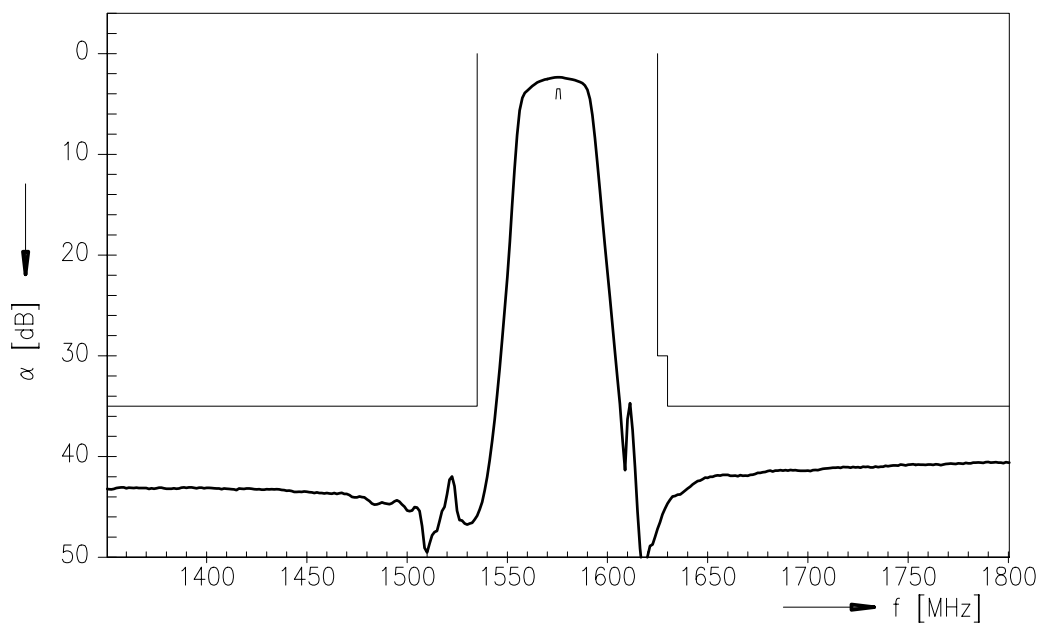
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1575,42 MHz

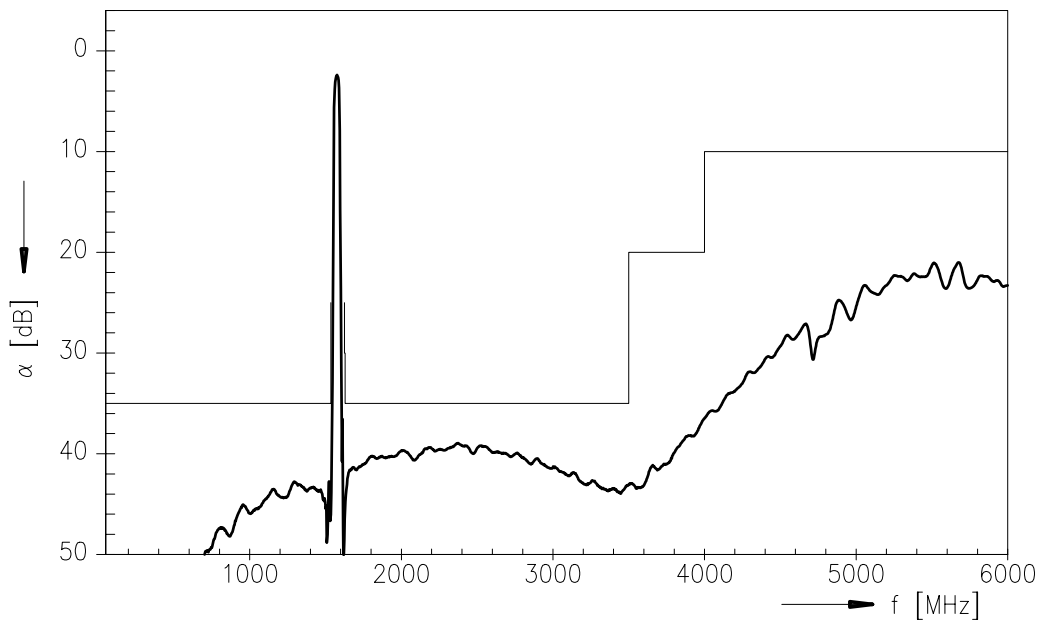
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Transfer function



Transfer function (wide band)





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Data Sheet	SMD

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