



SAW Components

Data Sheet B7722





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B7722

Low-Loss Filter

1575,42 MHz

Data Sheet

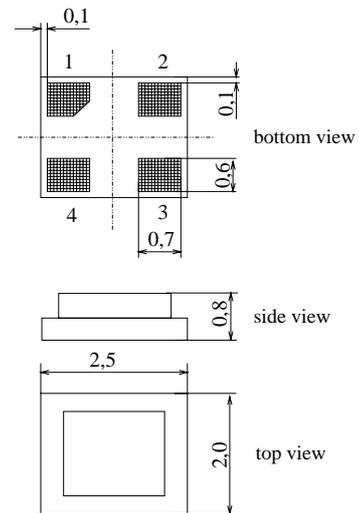
Chip Sized SAW Package

Features

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

Terminals

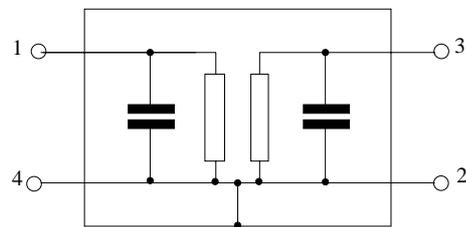
- Ni, gold-plated



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 Ω 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.	
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	$\alpha_{\text{rel}} \leq 3 \text{ dB}$	$B_{3\text{dB}}$	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	

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

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



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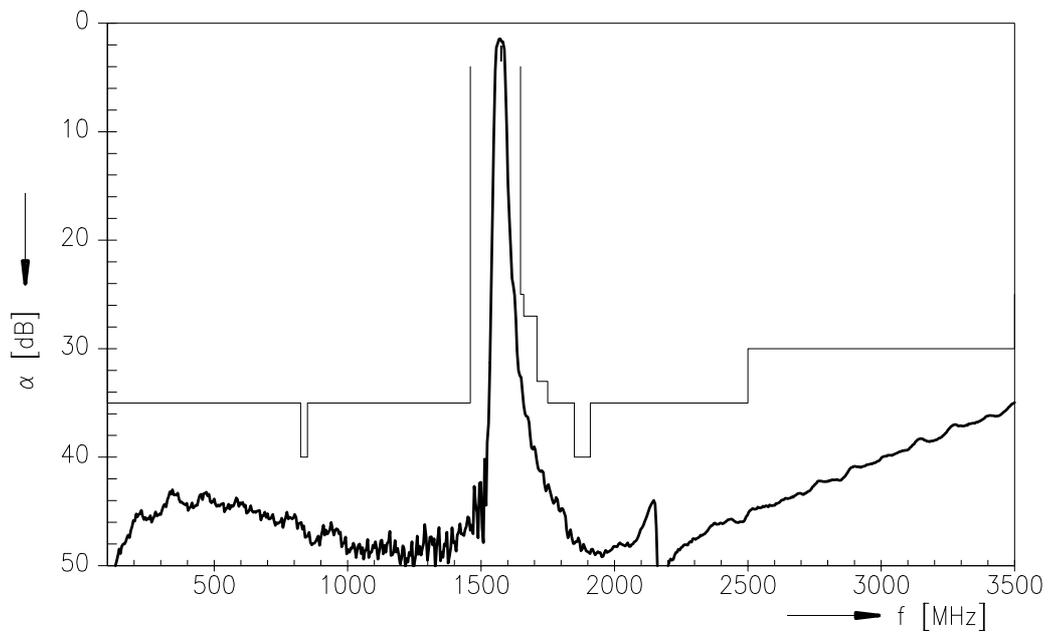
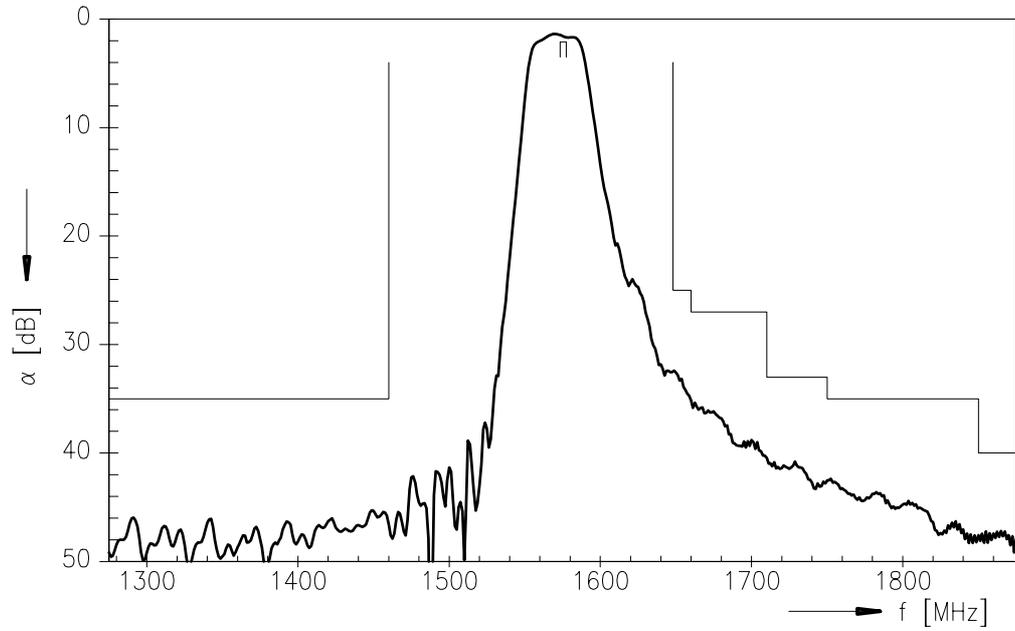
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Transfer function





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