



SAW Components

Data Sheet B7775

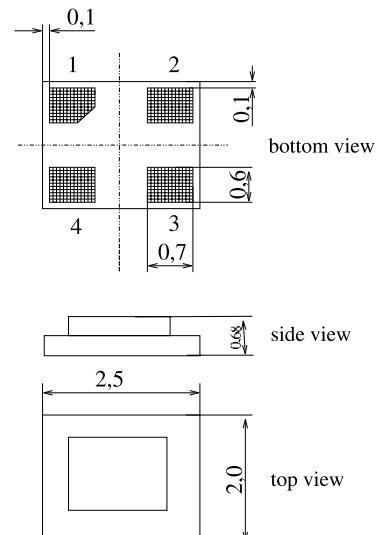
Data Sheet

SAW Components
B7775
Low-Loss Filter
1575,42 MHz
Data Sheet
Features

- Low loss RF filter for GPS receivers
- Low amplitude ripple
- Low insertion attenuation
- Usable passband 2 MHz
- No matching network required for operation at 50 Ω
- Unbalanced to unbalanced operation
- Package for **Surface Mounted Technology (SMT)**

Terminals

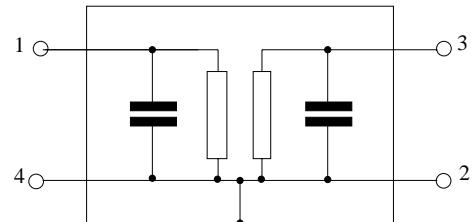
- Ni, gold-plated

Chip Sized SAW Package DCS4E


Dimensions in mm, approx. weight 0,012g

Pin configuration

1	Input
3	Output
2,4	Ground



Type	Ordering code	Marking and Package according to	Packing according to
B7775	B39162-B7775-E510	C61157-A7-A121	F61074-V8153-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}	3	V	
Input power max.				
1573,42 ... 1577,42 MHz	P_{IN}	3	dBm	source and load impedance 50 Ω continuous wave signal
50,0...1460 and 1710 ... 4000 MHz	P_{IN}	13	dBm	

**SAW Components****B7775****Low-Loss Filter****1575,42 MHz****Data Sheet****Characteristics**

Operating temperature range: $T_A = -40 \dots +85^\circ\text{C}$
Terminating source impedance: $Z_S = 50 \Omega$
Terminating load impedance: $Z_L = 50 \Omega$

		min.	typ.	max.	
Nominal frequency	f_N	—	1575,42	—	MHz
Maximum insertion attenuation	α_{\max}	—	2,0	3,0	dB
	1574,42 ... 1576,42 MHz	—	0,1	1,0	dB
Amplitude ripple in passband (p-p)	$\Delta\alpha$	—	12	17	dB
	1574,42 ... 1576,42 MHz	—	—	—	dB
Return loss (Input and Output)					
	1574,42 ... 1576,42 MHz	—	—	—	dB
Attenuation	α				
	806,00 ... 902,00 MHz	40	47	—	dB
	902,00 ... 1475,42 MHz	35	45	—	dB
	1475,42 ... 1535,42 MHz	30	37	—	dB
	1612,00 ... 1650,00 MHz	45	53	—	dB
	1792,00 ... 1804,00 MHz	45	53	—	dB
Temperature coefficient of frequency	TC_f	—	—36	—	ppm/K

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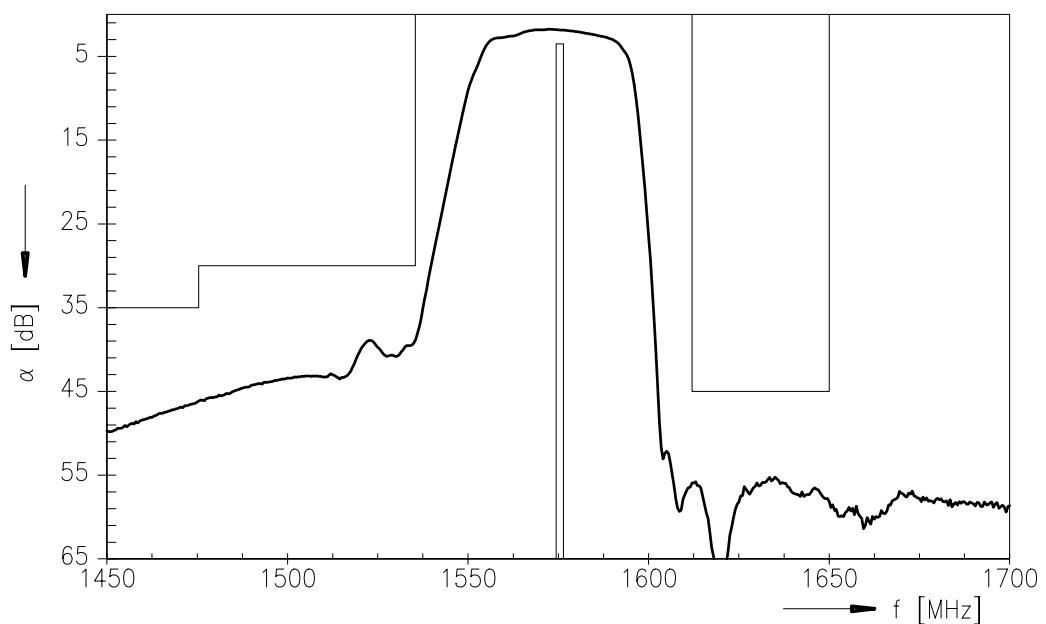
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Low-Loss Filter

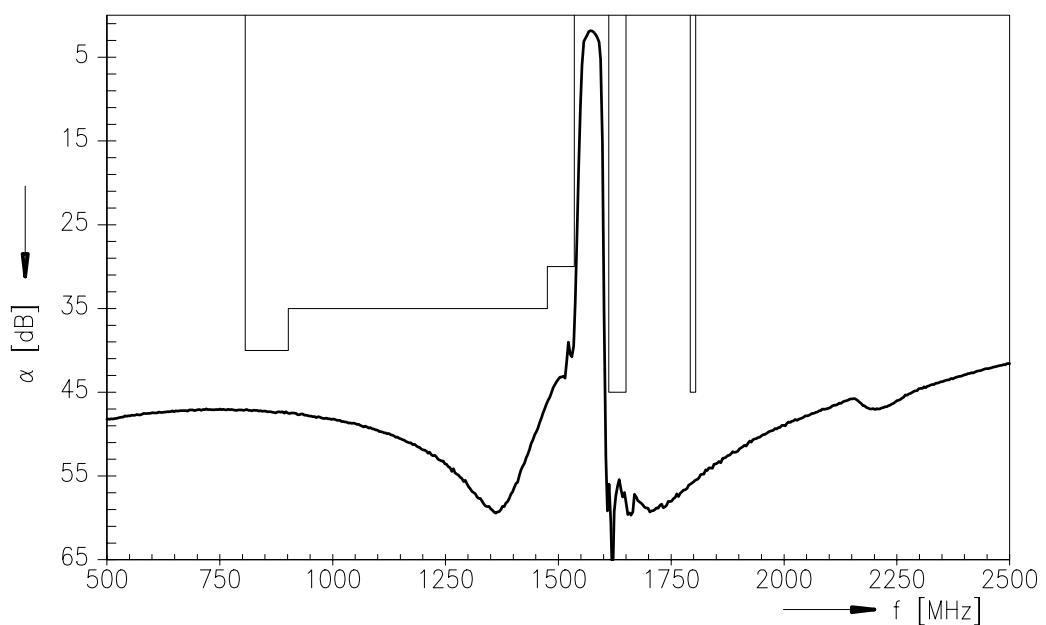
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Transfer function (pass band):



Transfer function:





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1575,42 MHz

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