



SAW Components

Data Sheet B7775





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B7775

Low-Loss Filter

1575,42 MHz

Data Sheet

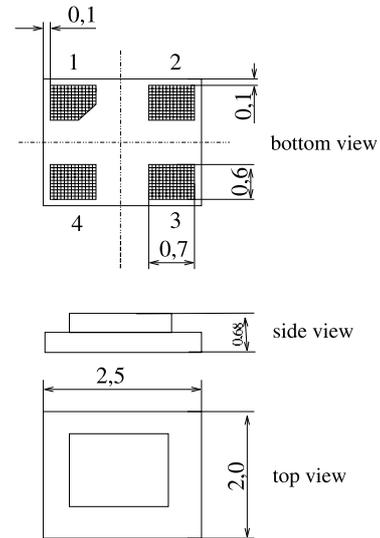
Features

- 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 **S**urface **M**ounted **T**echnology (**SMT**)

Terminals

- Ni, gold-plated

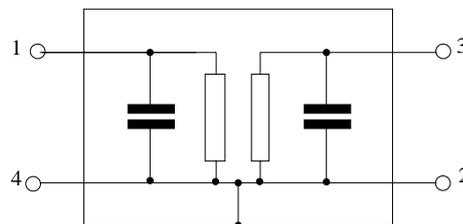
Chip Sized SAW Package DCS4E



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	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}	13	dBm	



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Characteristics

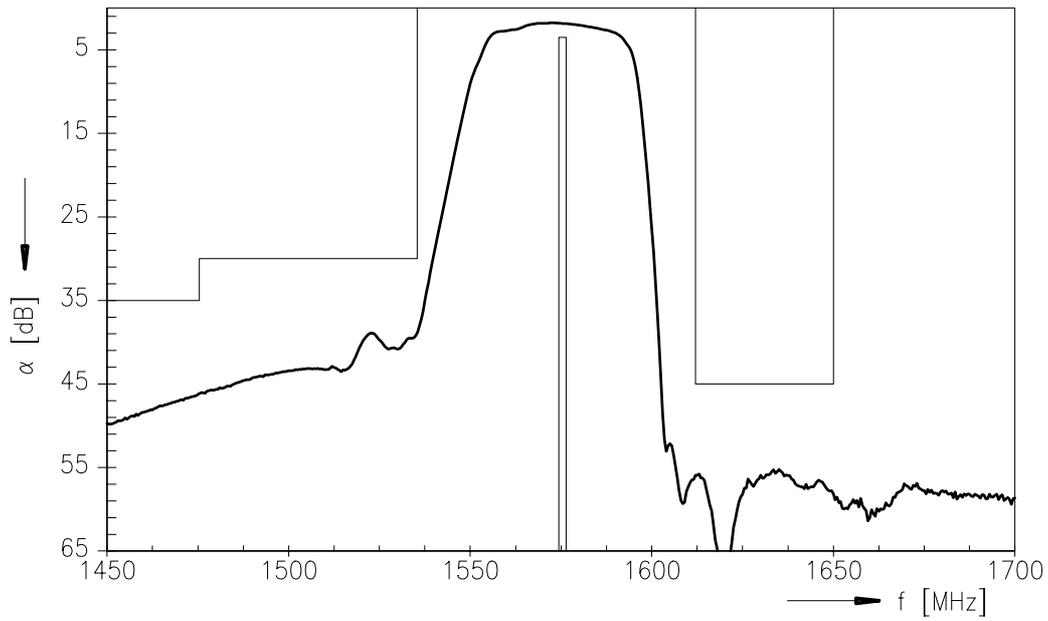
Operating temperature range: $T_A = -40 \dots +85 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega$
 Terminating load impedance: $Z_L = 50 \text{ } \Omega$

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

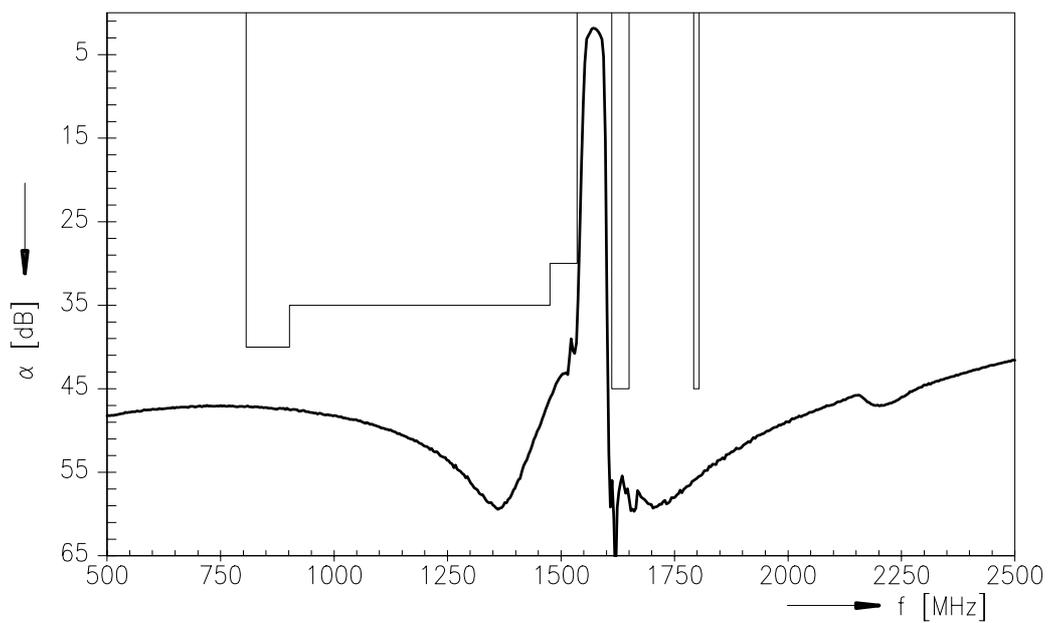


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Transfer function (pass band):



Transfer function:





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