



SAW Components

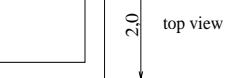
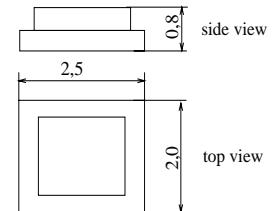
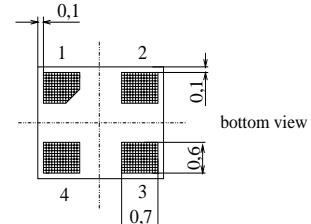
Data Sheet B7732, Pb-free

Data Sheet



SAW Components
B7732
Low-Loss Filter
1575,42 MHz
Data Sheet
Chip sized SAW package DCS4H
Features

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

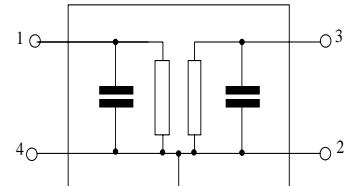

Terminals

- Ni, gold-plated

Dimensions in mm, approx. weight 0,015g

Pin configuration

1	Input
3	Output
2,4	Ground



Type	Ordering code	Marking and Package according to	Packing according to
B7732	B39162-B7732-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	Machine Model, 10 pulses
Input power max.				
1574,3 ... 1576,7 MHz	P_{IN}	3	dBm	source and load impedance 50 Ω
50,0...1535,5 and 1625,5 ... 6000 MHz	P_{IN}	15	dBm	continuous wave signal

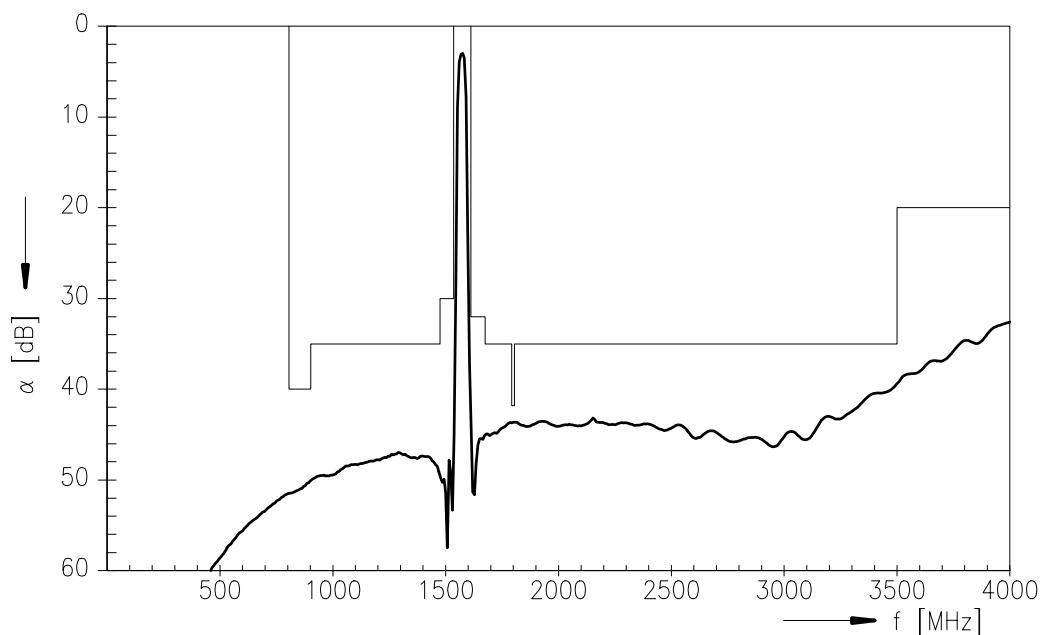
* - acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses

**SAW Components****B7732****Low-Loss Filter****1575,42 MHz****Data Sheet****Characteristics**

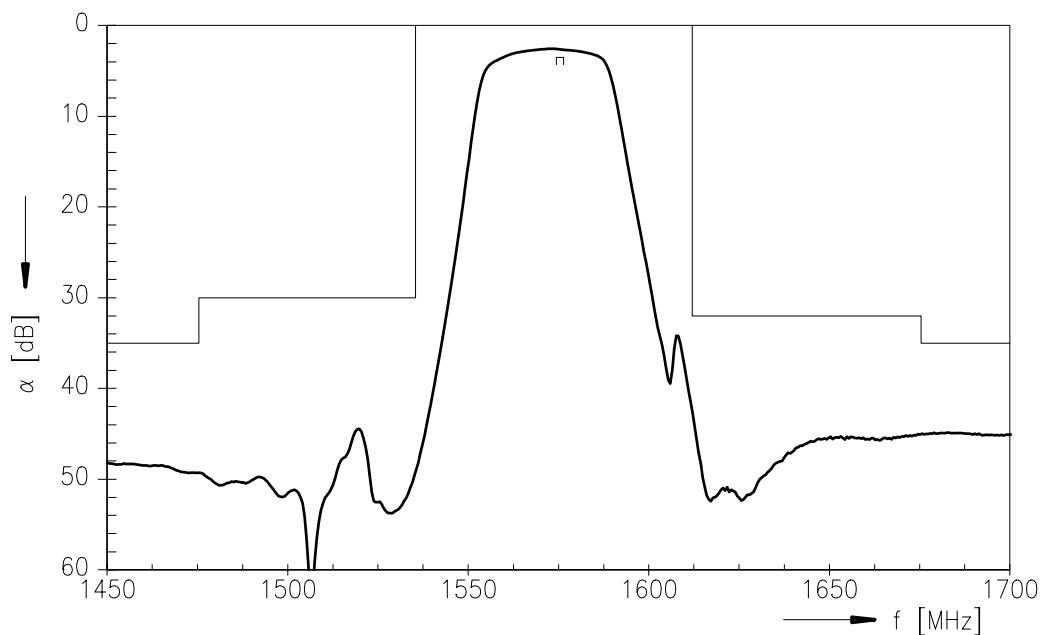
Operating temperature range: $T = -40 \dots +85^\circ\text{C}$
Terminating source impedance: $Z_S = 50 \Omega$
Terminating load impedance: $Z_L = 50 \Omega$

		min.	typ.	max.	
Nominal frequency	f_N	—	1575,42	—	MHz
Maximum insertion attenuation	α_{\max}	—	2,5	3,5	dB
	1574,42 ... 1576,42 MHz	—	0,1	1,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$	—	12,0	18,0	dB
	1574,42 ... 1576,42 MHz	—	—	—	dB
Return loss (Input and Output)					
	1575,42 ... 1576,42 MHz	—	—	—	dB
Absolute attenuation	α_{abs}				
	806,00 ... 902,00 MHz	40	49	—	dB
	902,00 ... 1475,42 MHz	35	47	—	dB
	1475,42 ... 1535,42 MHz	30	44	—	dB
	1612,00 ... 1675,42 MHz	32	41	—	dB
	1675,42 ... 1792,00 MHz	35	45	—	dB
	1792,00 ... 1804,00 MHz	42	45	—	dB
	1804,00 ... 3500,00 MHz	35	40	—	dB
	3500,00 ... 4000,00 MHz	20	32	—	dB
Temperature coefficient of frequency	TC_f	—	- 36	—	ppm/K

Transfer function



Transfer function (pass band)





SAW Components

B7732

Low-Loss Filter

1575,42 MHz

Data Sheet

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