EPCOS

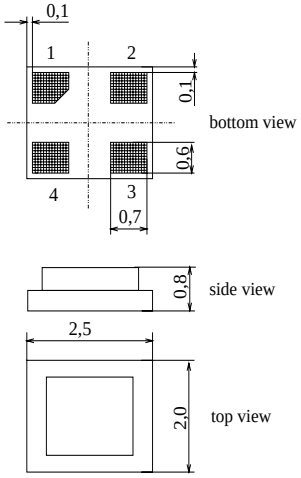
SAW Components

Data Sheet B7732, Pb-free

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



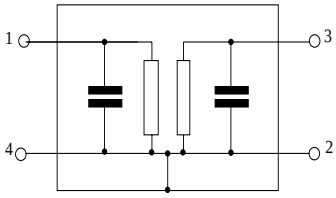
Terminals

- 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 **S**ensitive **D**evice (**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 continuous wave signal
50,0...1535,5 and 1625,5 ... 6000 MHz	P_{IN}	15	dBm	

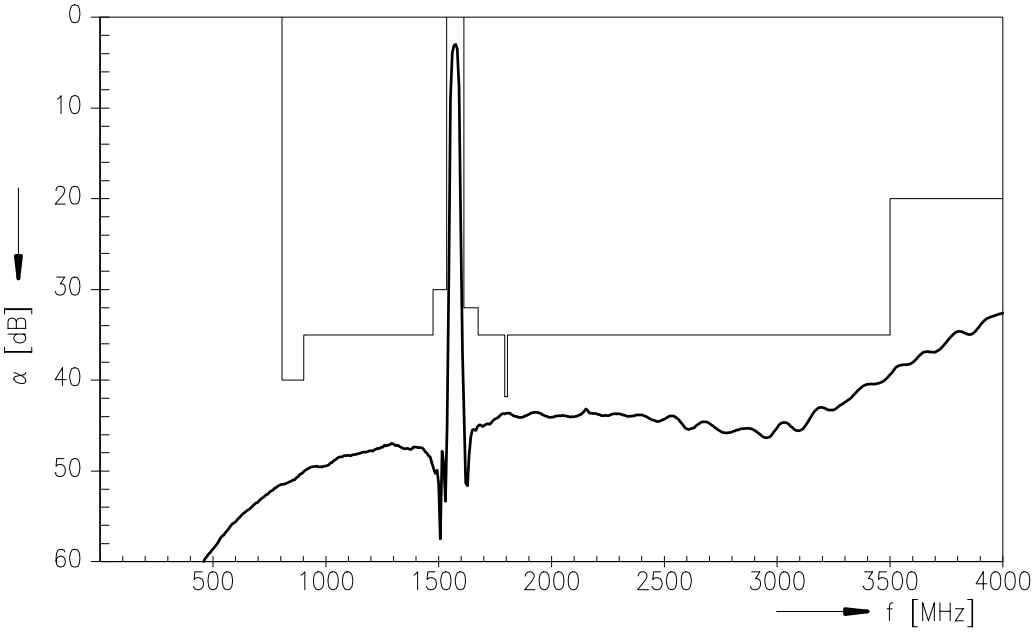
* - acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses

Characteristics

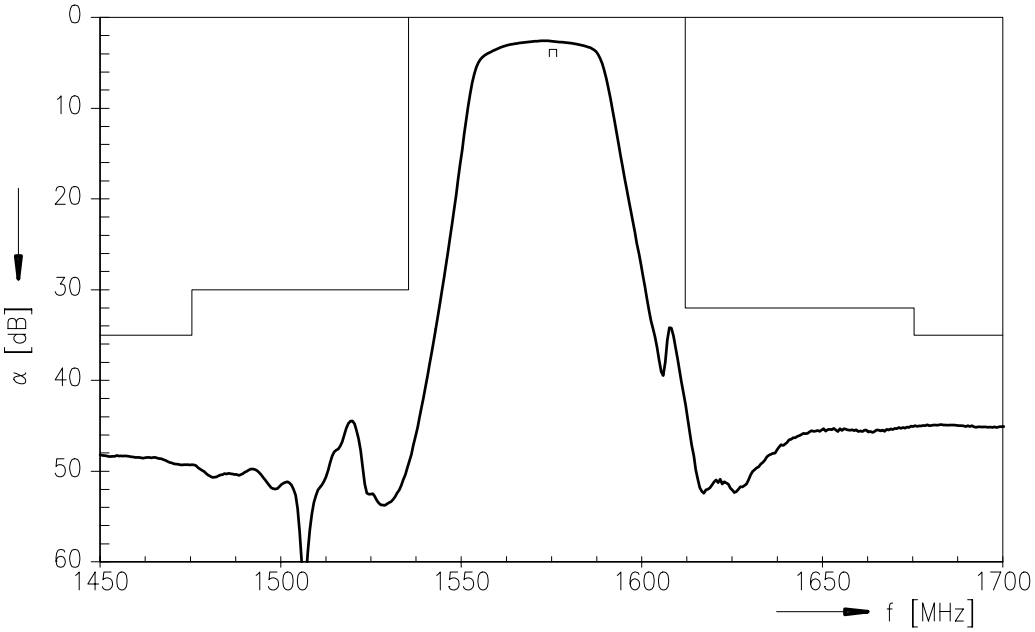
Operating temperature range: T = -40 ... +85 ˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Nominal frequency	f_N	—	1575,42	—	MHz
Maximum insertion attenuation	α_{max}				
1574,42 ...1576,42 MHz		—	2,5	3,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
1574,42 ...1576,42 MHz		—	0,1	1,5	dB
Return loss (Input and Output)					
1575,42 ...1576,42 MHz		12,0	18,0	—	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)



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