



SAW Components

Data Sheet B9016





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B9016

Low-Loss Filter

1575,42 MHz

Data Sheet

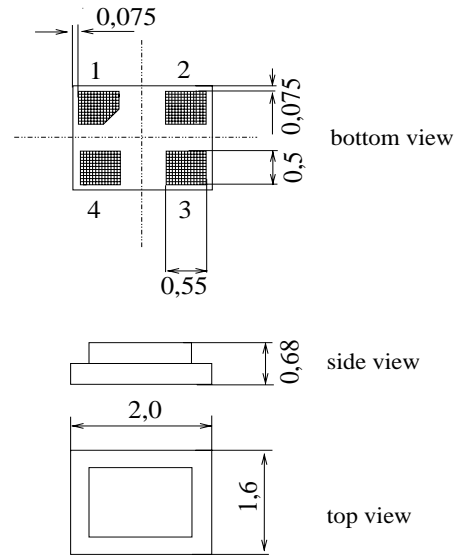
Features

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

Terminals

- Ni, gold-plated

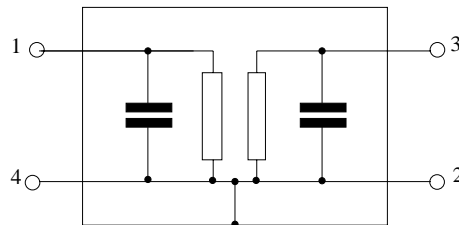
Chip Sized SAW Package DCS4F



Dimensions in mm, approx. weight 0,007g.

Pin configuration

- 1 Input
- 3 Output
- 2,4 Ground



Type	Ordering code	Marking and Package according to	Packing according to
B9016	B39162-B9016-E610	C61157-A7-A113	F61074-V8152-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 30/+ 85	°C	machine model, 10 pulses
Storage temperature range	T_{stg}	- 40/+ 85	°C	
DC voltage	V_{DC}	3	V	
ESD voltage	V_{ESD}^*	50*	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	

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


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Characteristics

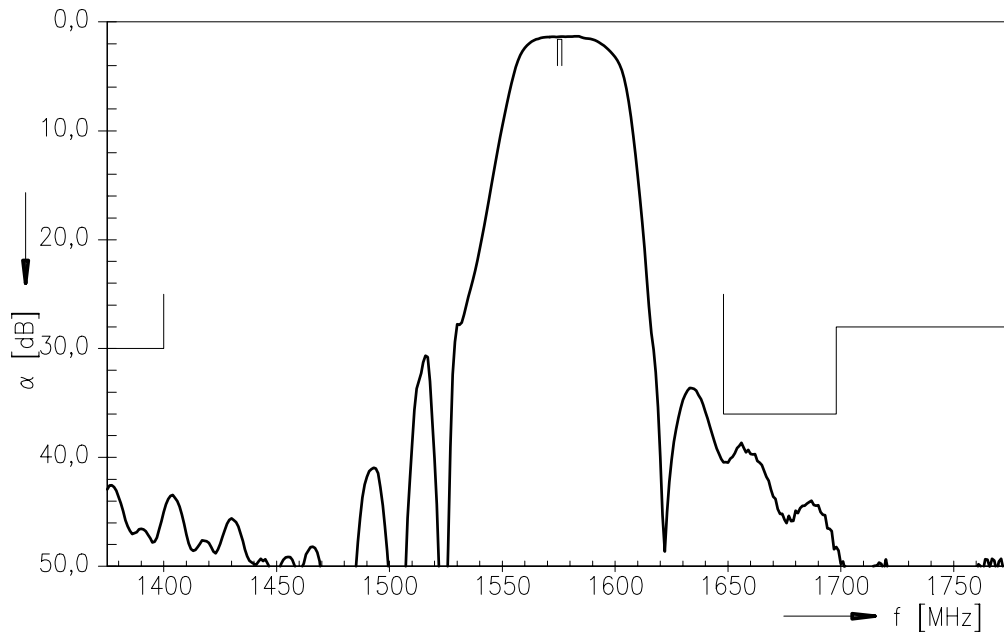
Operating temperature range: $T_A = -30 \dots +85 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega \text{ unbal.}$
 Terminating load impedance: $Z_L = 50 \text{ } \Omega \text{ unbal.}$

			min.	typ.	max.	
Nominal frequency	f_N		—	1575,42	—	MHz
Maximum insertion attenuation	α_{\max}	1574,67MHz ... 1576,17 MHz	—	1,4	2,0	dB
Amplitude ripple in passband (p-p)	$\Delta\alpha$	1574,67MHz ... 1576,17 MHz	—	0,05	0,3	dB
Phase linearity		1574,67MHz ... 1576,17 MHz	—	0,05	0,3	deg
Attenuation	α					
		0,1 MHz ... 915,0 MHz	35	42	—	dB
		915,0 MHz ... 1400,0 MHz	30	42	—	dB
		1648,0 MHz ... 1698,0 MHz	36	39	—	dB
		1698,0 MHz ... 1850,0 MHz	28	46	—	dB
		1850,0 MHz ... 1980,0 MHz	35	46	—	dB
		1980,0 MHz ... 2245,0 MHz	25	36	—	dB
		2245,0 MHz ... 3555,0 MHz	25	50	—	dB
		5275,0 MHz ... 5535,0 MHz	5	45	—	dB
VSWR		1574,67MHz ... 1576,17 MHz	—	1,3	1,8	

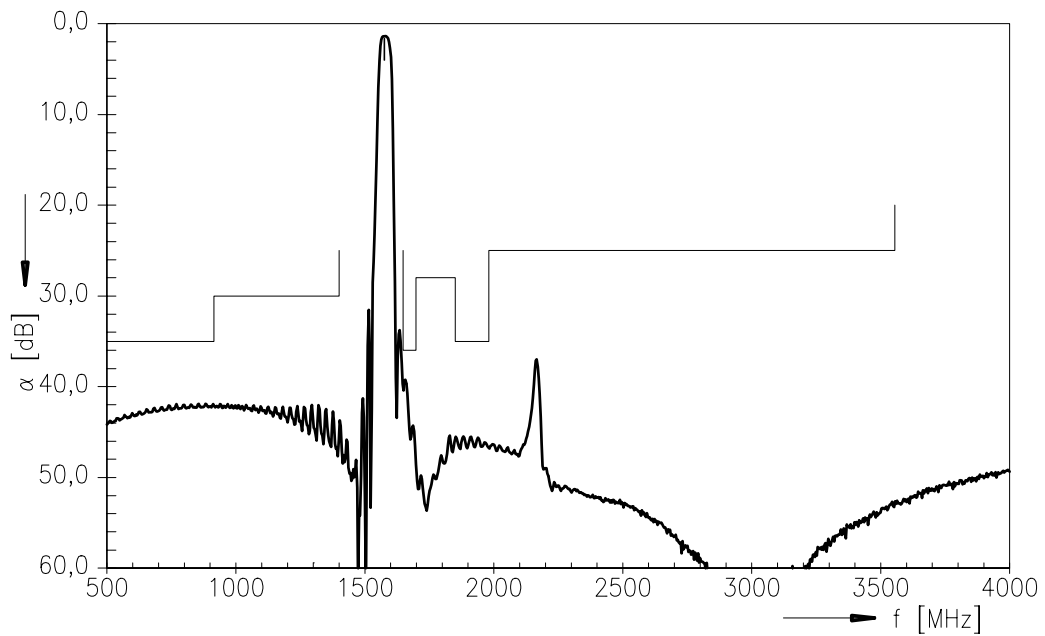


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Transfer function (pass band) :



Transfer function :





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