SAW Components

Data Sheet B7829

Data Sheet

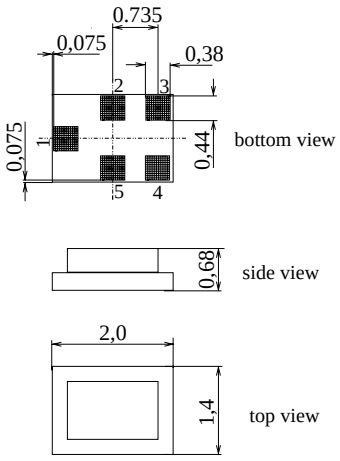
Chip **S**ized **S**AW **P**ackage

Features

- Low loss RF filter for GPS receivers
- Unbalanced to unbalanced operation
- Low amplitude ripple
- Package for **S**urface **M**ounted **T**echnology **(SMT)**

Terminals

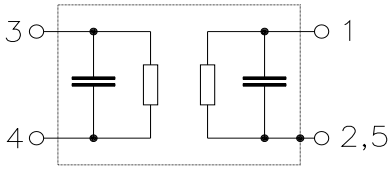
- Ni, gold-plated



Dimensions in mm, approx. weight 0,007 g

Pin configuration

4	Input, unbalanced
1	Output, unbalanced
2,5	Case ground
3	To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B7829	B39162-B7829-C710	C61157-A7-A82	F61074-V8151-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}	3	V	
ESD voltage	V_{ESD} 1)	50	V	Machine Model , 10 pulses
Input power max.				
1573,42 ... 1577,42 MHz	P_{IN}	3	dBm	source and load impedance 50 Ω
50,0...1460 MHz	P_{IN}	15	dBm	continuous wave signal
1910 ... 4000 MHz	P_{IN}	15	dBm	
824 ... 915 MHz	P_{IN}	23	dBm	
1710 ... 1910 MHz	P_{IN}	25	dBm	

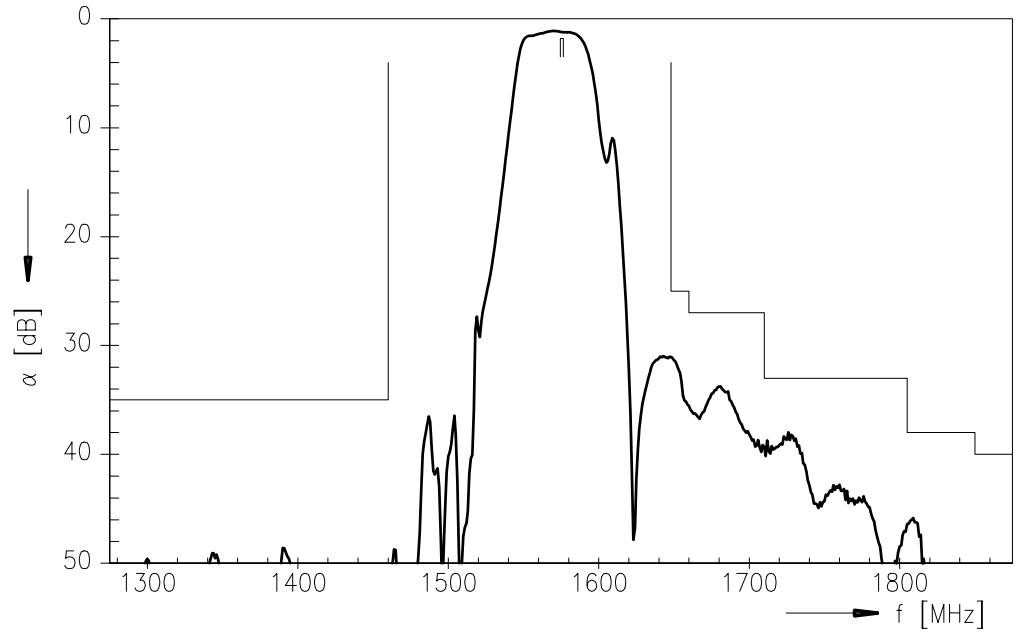
1) acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses

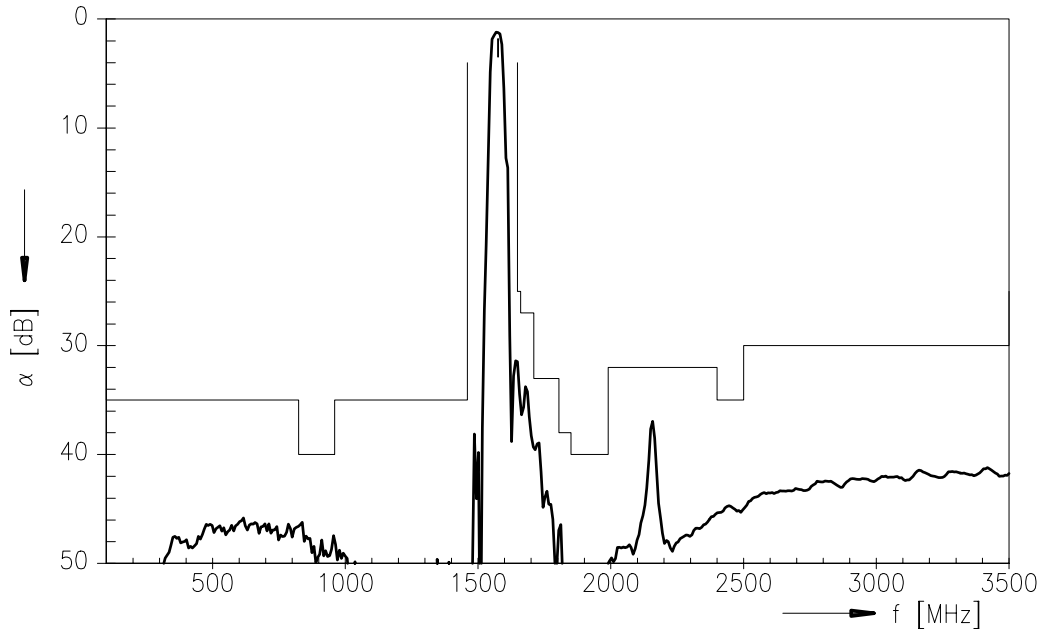
Characteristics

Operating temperature range: T_A = -30 ... +85 °C
Terminating source impedance: Z_S = 50 Ω unbal.
Terminating load impedance: Z_L = 50 Ω unbal.

		min.	typ.	max.	
Nominal frequency	f_N	—	1575,42	—	MHz
Maximum insertion attenuation	α_{max}				
1574,42MHz ... 1576,42 MHz		—	1,2	1,8	dB
Amplitude ripple in passband (p-p)	$\Delta\alpha$				
1574,42MHz ... 1576,42 MHz		—	0,1	0,5	dB
Group delay	τ				
1574,42 ...1576,42 MHz		—	15	50	ns
Attenuation	α				
100,0 MHz ... 824,0 MHz		35	46	—	dB
824,0 MHz ... 960,0 MHz		40	46	—	dB
960,0 MHz ... 1460,0 MHz		35	48	—	dB
1648,0 MHz ... 1660,0 MHz		25	30	—	dB
1660,0 MHz ... 1710,0 MHz		27	33	—	dB
1710,0 MHz ... 1805,0 MHz		33	38	—	dB
1805,0 MHz ... 1850,0 MHz		38	46	—	dB
1850,0 MHz ... 1990,0 MHz		40	50	—	dB
1990,0 MHz ... 2400,0 MHz		32	37	—	dB
2400,0 MHz ... 2500,0 MHz		35	44	—	dB
2500,0 MHz ... 3500,0 MHz		30	41	—	dB
VSWR					
1574,42MHz ... 1576,42 MHz		—	1,2	1,8	

Transfer function





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SAW MC WT, P.O. Box 80 17 09, 81617 Munich, GERMANY
TEL ++49 89 636 09, FAX ++49 89 636 2 26 89

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