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SAW Components

Data Sheet B7829

Data Sheet

EP



SAW Components

B7829

Low-Loss Filter

1575,42 MHz

Data Sheet

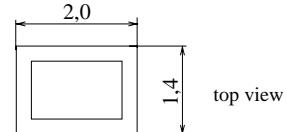
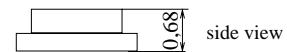
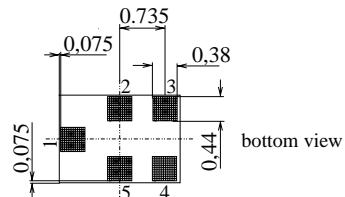
Features

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

Terminals

- Ni, gold-plated

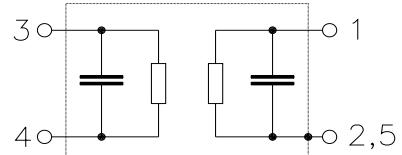
Chip Sized SAW Package



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 Sensitive Device (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

**SAW Components****B7829****Low-Loss Filter****1575,42 MHz****Data Sheet****Characteristics**

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

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



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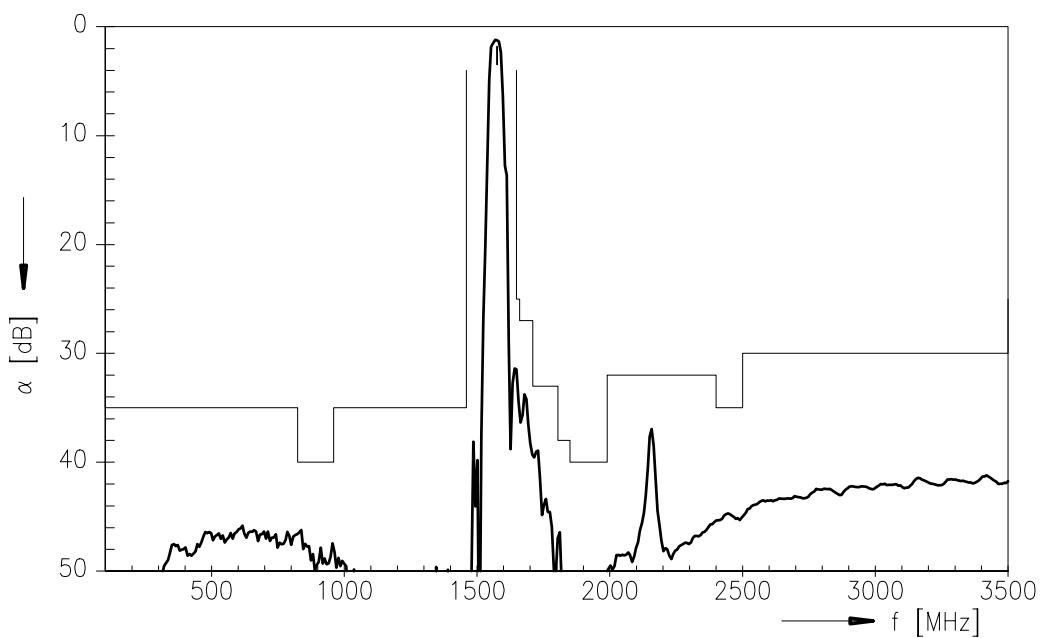
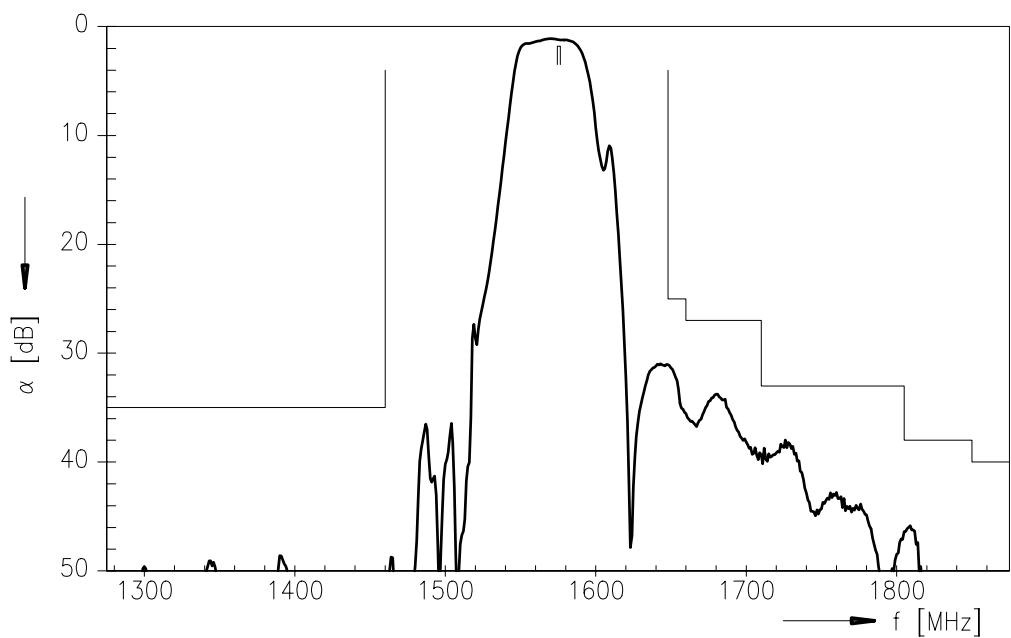
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Transfer function





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