

SAW Components

Data Sheet B7829





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

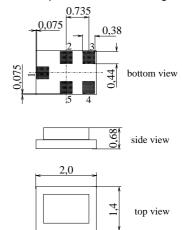
Features

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

Terminals

• Ni, gold-plated

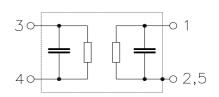
Chip Sized SAW Package



Dimensions in mm, approx. weight 0,007 g

Pin configuration

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



Туре	Ordering code	Marking and Package	Packing
		according to	according to
B7829	B39162-B7829-C710	C61157-A7-A82	F61074-V8151-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Т	- 40/+ 85	°C	
Storage temperature range	T _{stg}	- 40/+ 85	°C	
DC voltage	$V_{\rm DC}$	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
50,01460 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	

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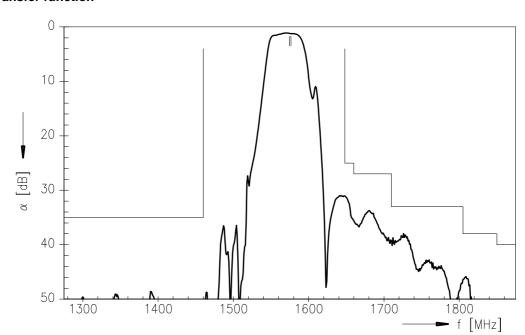
1) acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses

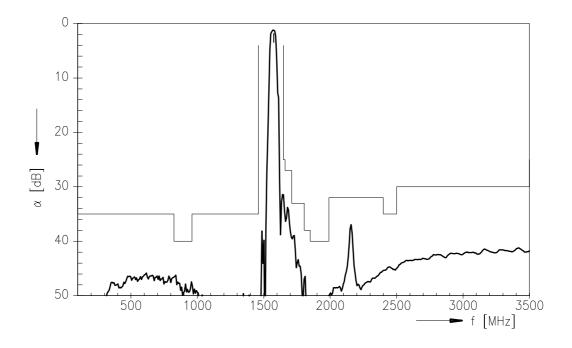


SAW Components						B7829
Low-Loss Filter					1575,4	2 MHz
Data Sheet						
Characteristics						
Operating temperature range: Terminating source impedance: Terminating load impedance:	$Z_{\rm S}$	= -30 $= 50 \Omega$ $= 50 \Omega$				
	<i>–</i> L	- 00 1	min.	typ.	max.	I
Nominal frequency		f _N		1575,42	<u> </u>	MHz
Nominal frequency		'N		1010,12		
Maximum insertion attenuatio	'n	α_{max}				
1574,42MHz	1576,42 MHz		—	1,2	1,8	dB
Amplitude ripple in passband	(n-n)	Δα				
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	



Data Sheet Transfer function





Jul 13, 2004

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Data Sheet

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