

SAW Components

Data Sheet B7829





SAW Components	B7829
Low-Loss Filter	1575,42 MHz

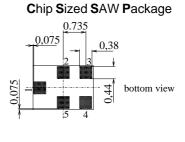
Data Sheet

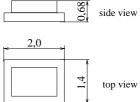
Features

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

Terminals

Ni, gold-plated

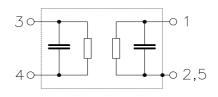




Dimensions in mm, approx. weight 0,007 g

Pin configuration

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



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

Electrostatic Sensitive Device (ESD)

Maximum ratings

	_	40/ 05		
Operable temperature range	1	- 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	

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



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Characteristics

Operating temperature range: $T_{\rm A} = -30 \dots +85 \,^{\circ}{\rm C}$ Terminating source impedance: $Z_{\rm S} = 50 \,\Omega$ unbal. Terminating load impedance: $Z_{\rm L} = 50 \,\Omega$ unbal.

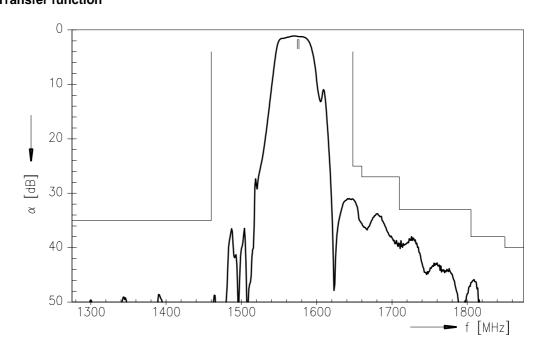
		min.	typ.	max.	
Nominal frequency	f _N	_	1575,42	_	MHz
Maximum insertion attenuation	α_{max}				
1574,42MHz 1576,42 MHz	⊶max	_	1,2	1,8	dB
Amplitude ripple in passband (p-p)	Δα				
1574,42MHz 1576,42 MHz		_	0,1	0,5	dB
Group delay	τ				
1574,421576,42 MHz		_	15	50	ns
Attenuation	α				
100,0 MHz 824,0 MHz		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	

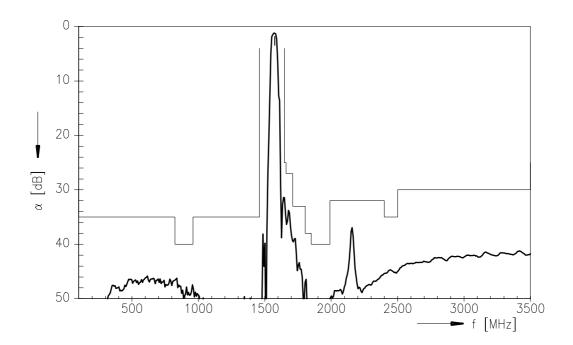


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Transfer function







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