

[查询"B39162-B7829-C710"供应商](#)



SAW Components

Data Sheet B7829





SAW Components	B7829
Low-Loss Filter	1575,42 MHz

Data Sheet

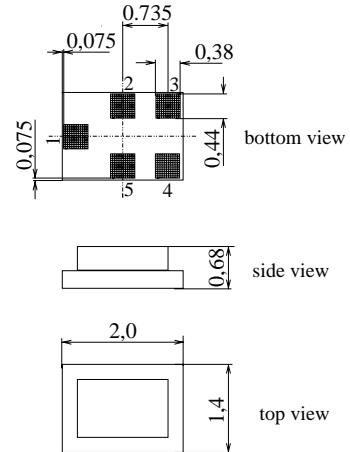
Features

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

Terminals

- Ni, gold-plated

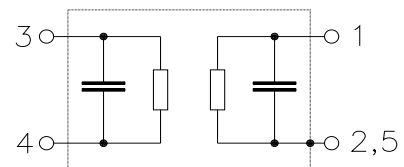
Chip Sized SAW Package



Dimensions in mm, approx. weight 0,007 g

Pin configuration

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



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	Machine Model , 10 pulses
Storage temperature range	T_{stg}	- 40/+ 85	°C	
DC voltage	V_{DC}	3	V	source and load impedance 50 Ω continuous wave signal
ESD voltage	$V_{ESD}^{1)}$	50	V	
Input power max.				
1573,42 ... 1577,42 MHz	P_{IN}	3	dBm	
50,0...1460 MHz	P_{IN}	15	dBm	
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: $T_A = -30 \dots +85 \text{ }^\circ\text{C}$
 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}	—	1,2	1,8	dB
1574,42MHz ... 1576,42 MHz					
Amplitude ripple in passband (p-p)	$\Delta\alpha$	—	0,1	0,5	dB
1574,42MHz ... 1576,42 MHz					
Group delay	τ	—	15	50	ns
1574,42 ... 1576,42 MHz					
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		—	1,2	1,8	
1574,42MHz ... 1576,42 MHz					



SAW Components

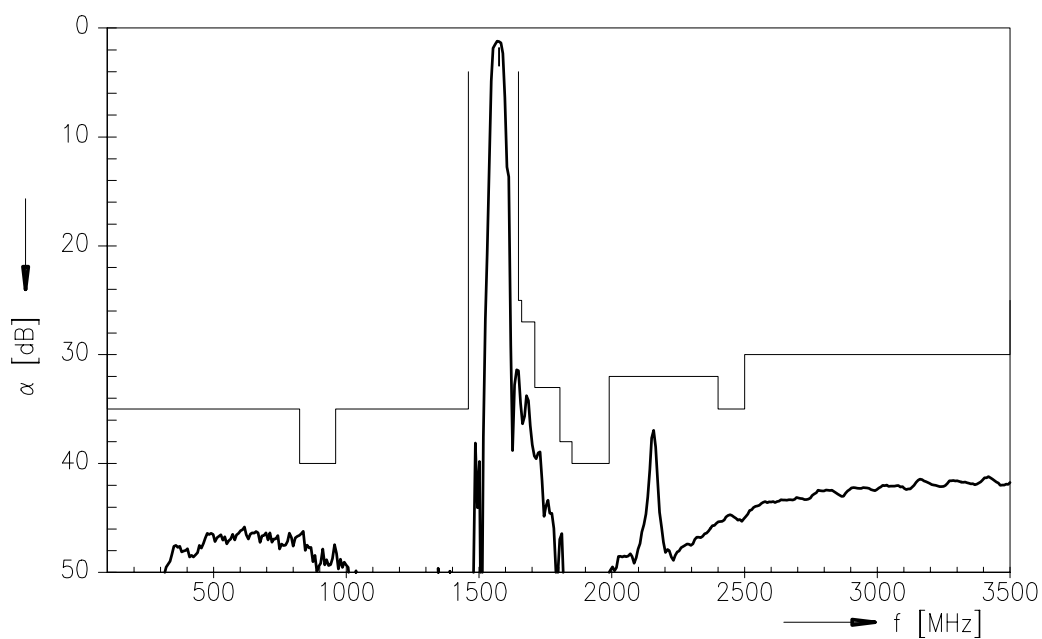
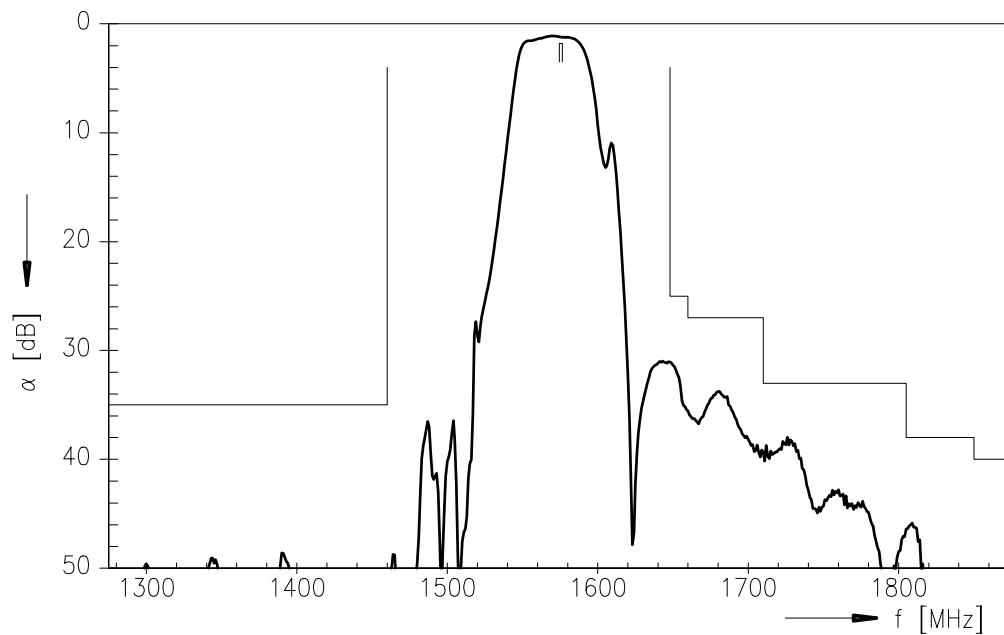
B7829

Low-Loss Filter

1575,42 MHz

Data Sheet

Transfer function





SAW Components	B7829
Low-Loss Filter	1575,42 MHz

Data Sheet

Published by EPCOS AG

SAW MC WT, P.O. Box 80 17 09, 81617 Munich, GERMANY

TEL ++49 89 636 09, FAX ++49 89 636 2 26 89

© EPCOS AG 2004. Reproduction, publication and dissemination of this brochure and the information contained therein without EPCOS' prior express consent is prohibited.

Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

For questions on technology, prices and delivery please contact the Sales Offices of EPCOS AG or the international Representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our Sales Offices.