

SAW Components

SAW Rx Filter

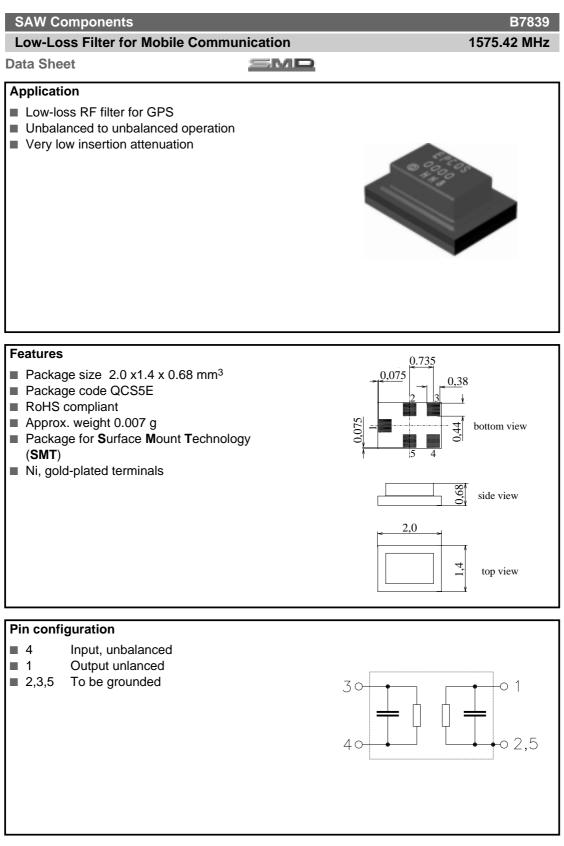
GPS

Series/Type: Ordering code: B7839 B39162-B7839-K410

Date: Version: Nov 16, 2005 2.1

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Nov 16, 2005

2



SAW Components					B7839	
Low-Loss Filter for Mobile Communication					1575.42 MHz	
Data Sheet	SM					
Characteristics						
Operating temperature range:T= $-30 \ ^{\circ}C \ \ +85 \ ^{\circ}C$ Terminating source impedance: $Z_S = 50 \ \Omega$ Terminating load impedance: $Z_L = 50 \ \Omega$						
		B7839				
		min.	typ. @ 25 °C	max.		
Nominal frequency	f _N		1575.42	_	MHz	
Maximum insertion attenuation 1574.421576.42MHz 1574.421576.42MHz	α_{max}	—	0.75 0.75	1.1 1.0	dB dB ¹⁾	
Amplitude ripple in passband (p-p) 1574.42 1576.42MHz	Δα		0.05	0.3	dB	
Attenuation 0.1 960.0 MHz 960.0 1460.0 MHz 1460.0 1513.0 MHz 1645.4 1710.0 MHz 1710.0 1990.0 MHz 1990.0 6000.0 MHz 4000.0 6000.0 MHz	α	38 35 22 23 35 30 20	41 40 29 28 40 35 28		dB dB dB dB dB dB dB	
VSWR <u>1574.42</u> 1576.42MHz <u>1</u> 0°C 155°C			1.1	1.8		

¹⁾ 0 °C ... +55 °C

Maximum ratings

Operable temperature range	Т	-40/+85	°C	
Storage temperature range	T _{stg}	-40/+85	°C	
DC voltage	V_{DC}	3	V	
ESD voltage Input Power at	V_{ESD}	50 ¹⁾	V	machine model, 10 pulses
1574.42 1576.42 MHz	P _{IN}	3	dBm	source and load impedance 50 $\boldsymbol{\Omega}$
50.01460 and 1710 4000 MHz	P _{IN}	25	dBm	continuous wave signal

 $^{1)}\,$ acc. to JESD22-A115A (machine model), 10 negative & 10 positive pulses.



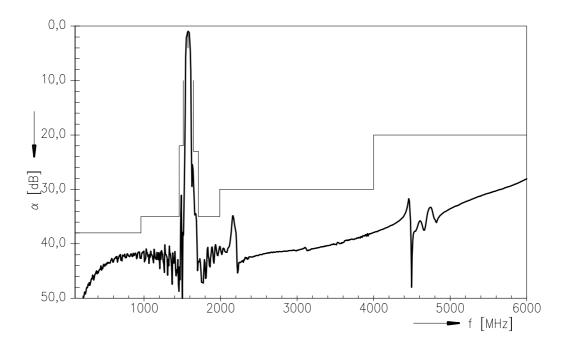
0,0 10,0 20,0 10,0 20,0 10,0 20,0 10,0 20,0 10,0 20,0 10,0 10,0 20,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,0 10,010,0

Transfer function (wideband)

1400

1450

50,0



4

1550

1500

1600

1650

1700

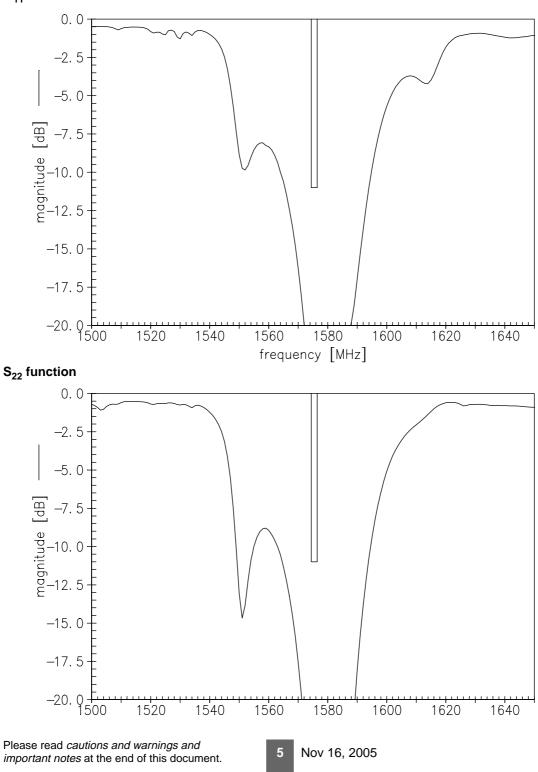
) 1750 - f [MHz]

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Nov 16, 2005









SAW Components		B7839
Low-Loss Filter for Mobile Communication		1575.42 MHz
Data Sheet	SMD	

Туре	B7839	
Ordering code	B39162-B7839-K410	
Marking and Package	C61157-A7-A131	
Packaging	F61074-V8151-Z000	
Date Codes	L_1126	
S-Parameters	B7839_NB.s3p	
	B7839_WB.s3p	
Soldering profile	S_6001	

For further information please contact your local EPCOS sales office or visit our webpage at www.epcos.com .

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Surface Acoustic Wave Components Division

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6

Nov 16, 2005



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