

SAW Components

Data Sheet B7840





SAW Components B7840

Low-Loss Filter 1575,42 MHz

Data Sheet

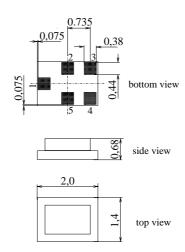
Features

- Low loss RF filter for GPS receivers
- Unbalanced to balanced operation
- Low amplitude ripple
- Impedance transformation from 50 Ω to 100 Ω
- Package for Surface Mounted Technology (SMT)

Terminals

Ni, gold-plated

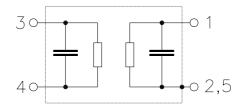
Chip Sized SAW Package



Dimensions 2,0x1,4 mm², approx. weight 0,007 g

Pin configuration

1	Input, unbalanced			
3, 4	Output, balanced			
2, 5	Case ground			



Туре	Ordering code	Marking and Package	Packing
		according to	according to
B7840	B39162-B7840-C710	C61157-A7-A82	F61074-V8151-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 40/+ 85	°C	
Storage temperature range	$T_{\rm stg}$	- 40/+ 85	°C	
DC voltage	$V_{\rm DC}$	3	V	
Source power	D	10	dBm	8241525, 17102500 MHz
source 50 Ω , load 100 Ω	rs	5	UDIII	elsewhere



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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: $Z_{\rm L} = 100 \,\Omega$ bal.

			min.	typ.	max.	
Nominal frequency		f _N	_	1575,42	_	MHz
Maximum insertion attenuation		α_{max}				
	576,42MHz*)	Illax	_	1,2	1,6	dB
	576,42 MHz		_	1,2	1,7	dB
Amplitude ripple in passband (p-p	o)	Δα				
1574,42MHz 1	576,42 MHz		_	0,1	0,3	dB
Output phase balance $(\phi(S_{31})-\phi(S_{31}))$	₂₁)+180°)					
1574,42MHz 1	576,42 MHz		-10	6	10	٥
Output amplitude balance ($ S_{31}/S_2 $	21)					
1574,42MHz 1	576,42 MHz		-1,0	0,2	1,0	dB
Return loss						
	576,42 MHz		11,0	21	_	dB
VSWR 1574,421	576,42 MHz		_	1,2	1,8	
Absolute attenuation		04				
	960,0 MHz	α_{rel}	40	48		dB
•	425,0 MHz		35	42		dB
	475,0 MHz		30	42	_	dB
	515,0 MHz		20	32		dB
	525,0 MHz		17	27	_	dB
· ·	635,0 MHz		12	30		dB
•	675,0 MHz		20	30	_	dB
•	750,0 MHz		30	34	_	dB
	805,0 MHz		35	44		dB
1805,0 MHz 1	980,0 MHz		40	47		dB
	400,0 MHz		35	39		dB
	155,0 MHz		40	52	_	dB
3155,0 MHz 6	000,0 MHz		35	44	_	dB

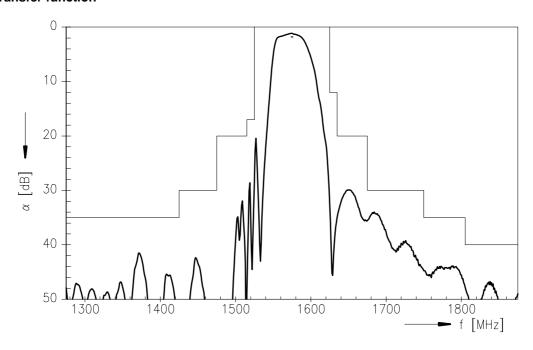
^{*)} T_A = +25 °C

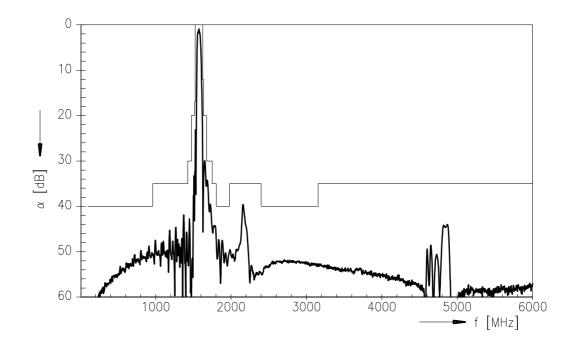


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Transfer function







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