

SAW Components

SAW band-stop filter ISDB-T

Series/type: LP62A

Ordering code:

Date: June 14, 2006

Version: 1.1

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SAW Components LP62A

SAW band-stop filter

620.00 MHz

Preliminary data



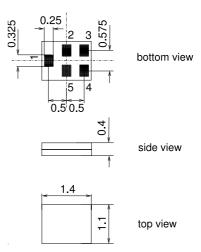
Application

- Low-loss RF band-stop filter for ISDB-T
- Low amplitude ripple
- Low group delay ripple
- Usable passband 300 MHz



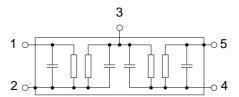
Features

- Package size 1.4 x1.1 x 0.4 mm³
- Maximum height of 0.45 mm
- Package code QCS5I
- RoHS compatible
- Approximate weight 0.003 g
- Package for Surface Mount Technology (SMT)
- Ni, gold-plated terminals
- Electrostatic Sensitive Device (ESD)



Pin configuration

- 1 Input unbalanced
- 4 Output unbalanced
- 3 External coupling coil
- 2,5 Case ground





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Characteristics

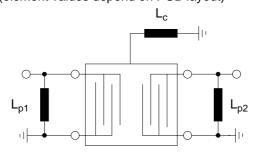
Temperature range for specification: $T = -30 \,^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$

Terminating source impedance: $Z_S = 50 \Omega$ and matching network Terminating load impedance: $Z_L = 50 \Omega$ and matching network

		LP62A ¹⁾					
	max.	typ. @ 25 °C	min.				
MHz	_	620.00	_	f _N		uency	Nominal frequ
				α_{max}	Minimum insertion attenuation		
dΒ	0.9	0.7	_		7.00 MHz	470.00 7	
dB	0.9	0.7).00 MHz	470.00 7	
				α_{max}	Maximum insertion attenuation		
dB	1.3	1.0	_		7.00 MHz	470.00 7	
dB	1.5	1.1	_).00 MHz	470.00 7	
				α			Attenuation
dΒ		42.0	40.0		0.00 MHz	2	
dB	_	45.0	40.0).00 MHz	830.00 8	
				Δτ	Group delay ripple (p-p)		
าร		3	_		7.00 MHz	470.00 7	
าร	_	4).00 MHz	470.00 7	
dE dE dE	1.5 	1.1 42.0 45.0		α	7.00 MHz 0.00 MHz 0.00 MHz 0.00 MHz 7.00 MHz	470.00 7 470.00 7 830.00 8 ripple (p-p) 470.00 7	Attenuation

¹⁾ Values in columns min, typ and max indicate the development status of the current version.

Matching network (element values depend on PCB layout)



$$L_{p1} = 18 \text{ nH}$$

 $L_{p2} = 10 \text{ nH}$
 $L_{c} = 5.6 \text{ nH}$



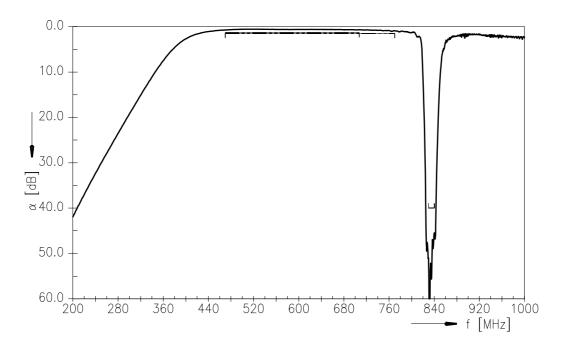
SAW Components		LP62A
SAW band-stop filter		620.00 MHz
Preliminary data	SMD	

Maximum ratings

Operable temperature range	Т	-30/+85	°C	
Storage temperature range	T_{stg}	-40/+85	°C	
DC voltage	V_{DC}	3	V	
ESD voltage	V_{ESD}	100 ¹⁾	V	machine model, 10 pulses
Source power at				
830.0 840.0 MHz	P_S	24	dBm	peak power of W-CDMA signal

¹⁾ according to JESD22-A115A (machine model), 10 negative & 10 positive pulses.

Transfer function

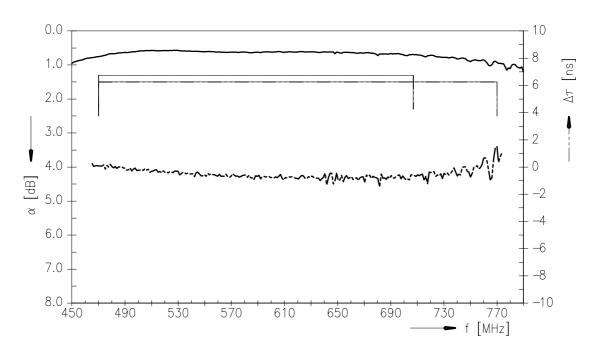




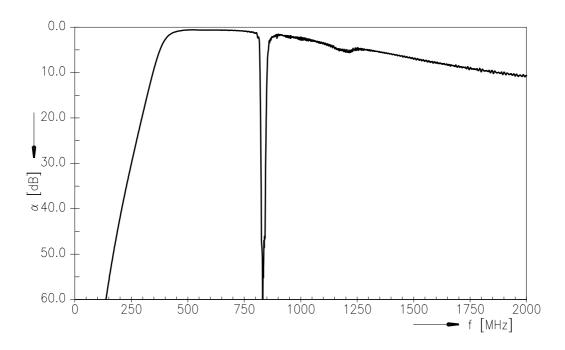
SAW Components LP62A SAW band-stop filter 620.00 MHz

Transfer function (pass band)

Preliminary data



Transfer function (wide band)





SAW Components	LP62A
SAW band-stop filter	620.00 MHz
B. B. C. L.	

Preliminary data



References

Туре	LP62A
Ordering code	
Marking and package	C61157-A8-A3
Packaging	F61074-V8212-Z000
Date codes	L_1126
S-parameters	LP62A_WB_UN.s3p
Soldering profile	S_6001
RoHS compatible	defined as compatible with the following documents: "DIRECTIVE 2002/95/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 27 January 2003 on the restriction of the use of certain hazardous substances in electrical and electronic equipment. 2005/618/EC from April 18th, 2005, amending Directive 2002/95/EC of the European Parliament and of the Council for the purposes of establishing the maximum concentration values for certain hazardous substances in electrical and electronic equipment."
Moldability	Before using in overmolding environment, please contact your EPCOS sales office.

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