SAW Components

SAW filter

GSM 850 TX

Series/type:	**B4122**
Ordering code:	**B39841B4122U410**
Date:	April 14, 2010
Version:	2.0

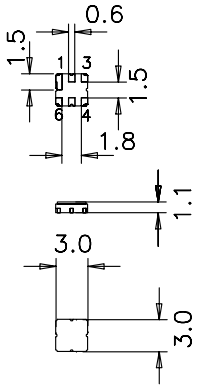
Data sheet SMD

Application

- Low-loss RF filter for AMPS mobile telephone system,transmit path
- Low amplitude ripple
- No matching required for operation at 50Ω
- Usable passband 25 MHz

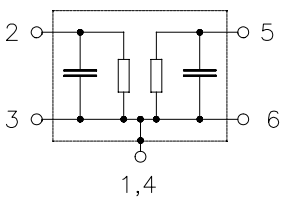
Features

- Package size 3.0 x 3.0 x 1.1 mm³
- Package code DCC6C
- RoHS compatible
- Approximate weight 0.037 g
- Package for **S**urface **M**ount **T**echnology (**SMT**)
- Ni, gold-plated terminals
- **E**lectrostatic **S**ensitive **D**evice (**ESD**)



Pin configuration

- 2 Input
- 3 Ground
- 5 Output
- 6 Ground
- 1,4 Case ground



Data sheet SMD

Characteristics

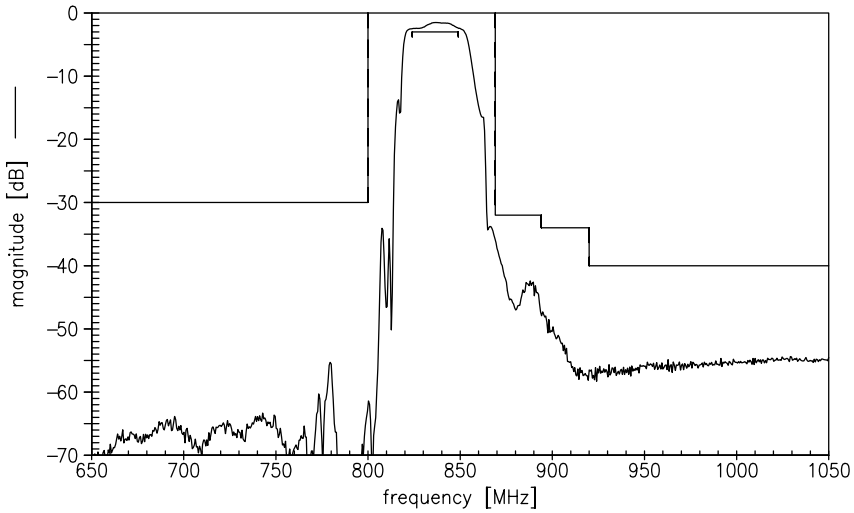
Temperature range for specification: T = -30 to +85˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

			min.	typ. @ 25 ˚C	max.	
Center frequency		f_c		836.5		MHz
Maximum insertion attenuation		α_{max}				
	824,0 ... 849,0 MHz		—	2,6	3,0	dB
Amplitude ripple (p-p)		$\Delta\alpha$				
	824,0 ... 849,0 MHz		—	1,1	1,5	dB
VSWR						
	824,0 ... 849,0 MHz		—	1,92	2,0	dB
Attenuation		α_{abs}				
	0,0 ... 800,0 MHz		30,0	50,0	—	dB
	800,0 ... 894,0 MHz		32,0	34,0	—	dB
	894,0 ... 920,0 MHz		34,0	40,0	—	dB
	920,0 ...1210,0 MHz		40,0	55,0	—	dB
	1210,0 ...1500,0 MHz		30,0	50,0	—	dB
	1500,0 ...2000,0 MHz		25,0	50,0	—	dB
	2000,0 ...2600,0 MHz		20,0	32,0	—	dB
	2600,0 ...3000,0 MHz		15,0	28,0	—	dB

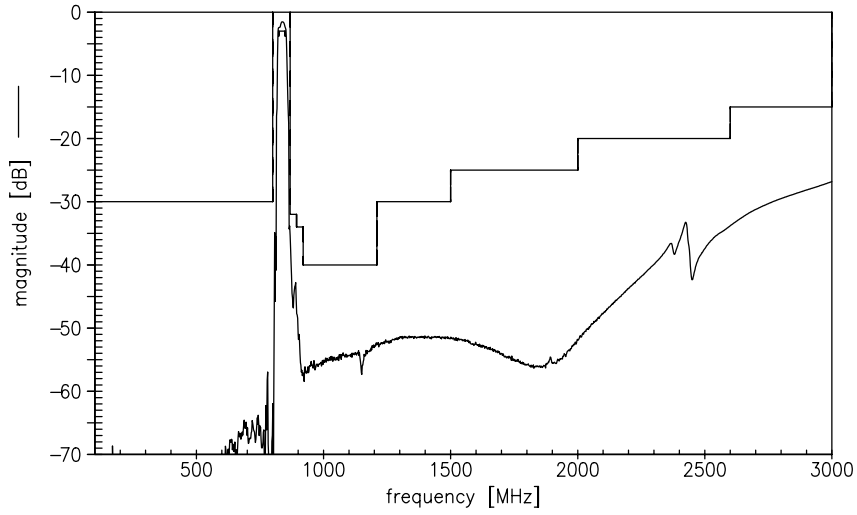
Maximum ratings

Operable temperature range	T	–40/+85	˚C	
Storage temperature range	T_{stg}	–40/+85	˚C	
DC voltage	V_{DC}	3	V	
Source power	Ps	8	dBm	source impedance 50 Ω

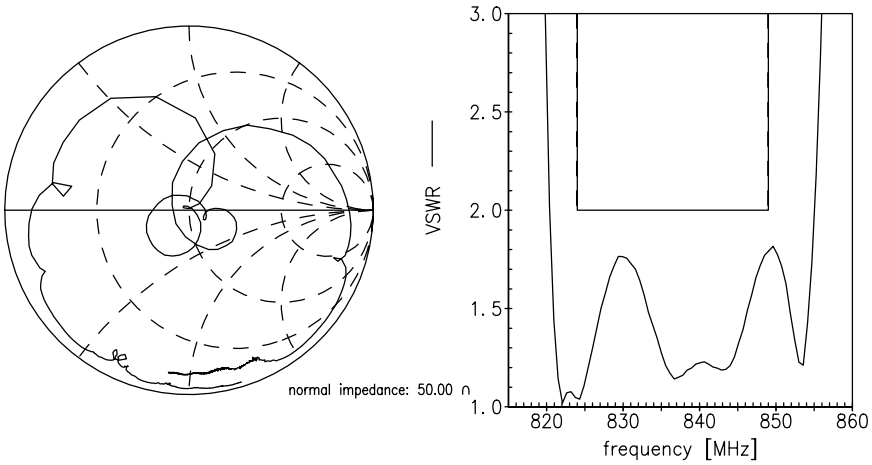
Transfer function



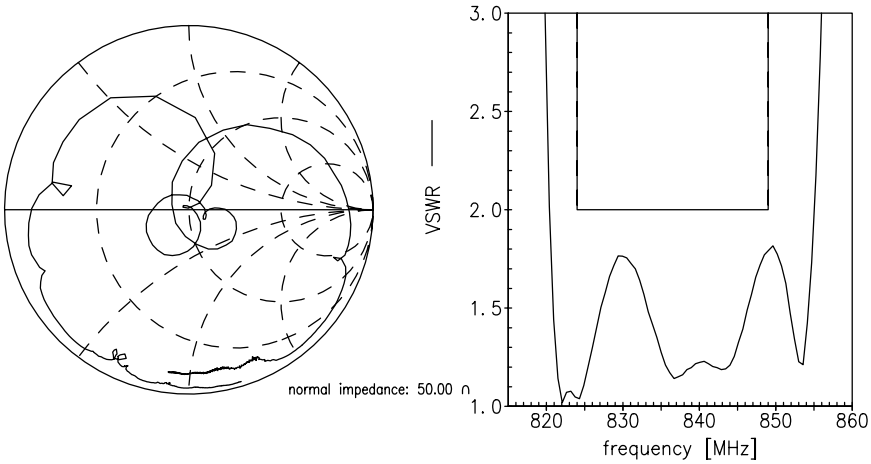
Transfer function (wideband)



Reflection function



Reflection function (wideband)



References

Type	B4122
Ordering code	B39841B4122U410
Marking and package	C61157-A7-A67
Packaging	F61074-V8088-Z000
Date codes	L_1126
S-parameters	B4122_NB.s2p B4122_WB.s2p See file header for port/pin assignment table
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."

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