



SAW Components

Data Sheet B4148

Data Sheet

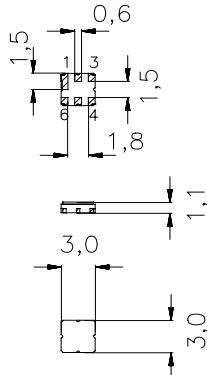
EPCOS

Features

- Low-loss RF filter for mobile telephone PCS systems, receive path
- Usable passband 60 MHz
- No matching network required for operation at 50 Ω
- Ceramic Package for **Surface Mounted Technology (SMT)**

Terminals

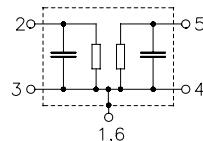
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

Pin configuration

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



Type	Ordering code	Marking and Package according to	Packing according to
B4148	B39202-B4148-U410	C61157-A7-A67	F61074-V8088-Z000

Electrostatic Sensitive Device (ESD)
Maximum ratings

Operable temperature range	T	- 20/+ 75	°C	source and load impedance 50 Ω peak power of GSM signal, duty cycle 1 : 8 CDMA signal
Storage temperature range	T_{stg}	- 40/+ 85	°C	
DC voltage	V_{DC}	0	V	
Input power max.	P_{IN}	15	dBm	
		10	dBm	

Data Sheet

Characteristics

 Operating temperature range: $T = +25 \pm 5^\circ\text{C}$

 Terminating source impedance: $Z_S = 50 \Omega$

 Terminating load impedance: $Z_L = 50 \Omega$

			min.	typ.	max.	
Center frequency		f_c	—	1960,0	—	MHz
Maximum insertion attenuation		α_{\max}	—	2,8	3,3	dB
	1930,0 ... 1990,0	MHz	—	1,3	2,0	dB
Amplitude ripple (p-p)		$\Delta\alpha$	—	1,8	2,1	
	1930,0 ... 1990,0	MHz	—	1,8	2,1	
Input VSWR			—	1,8	2,1	
	1930,0 ... 1990,0	MHz	—	1,8	2,1	
Output VSWR			—	1,8	2,1	
	1930,0 ... 1990,0	MHz	—	1,8	2,1	
Attenuation		α	20,0	22,0	—	dB
	10,0 ... 600,0	MHz	18,0	19,5	—	dB
	600,0 ... 1500,0	MHz	20,0	22,0	—	dB
	1500,0 ... 1850,0	MHz	11,0	21,0	—	dB
	1850,0 ... 1910,0	MHz	10,0	17,0	—	dB
	2010,0 ... 2070,0	MHz	20,0	23,0	—	dB
	2070,0 ... 5000,0	MHz	10,0	18,0	—	dB
	5000,0 ... 6000,0	MHz				

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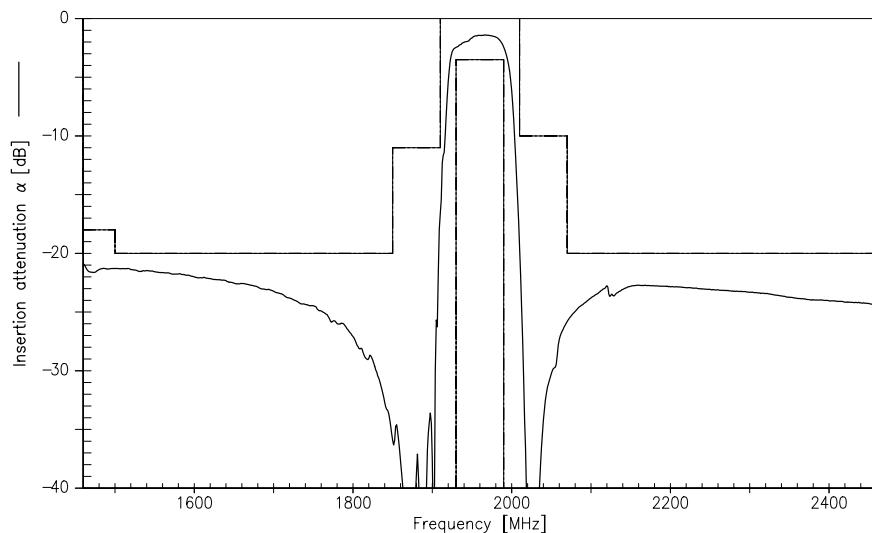
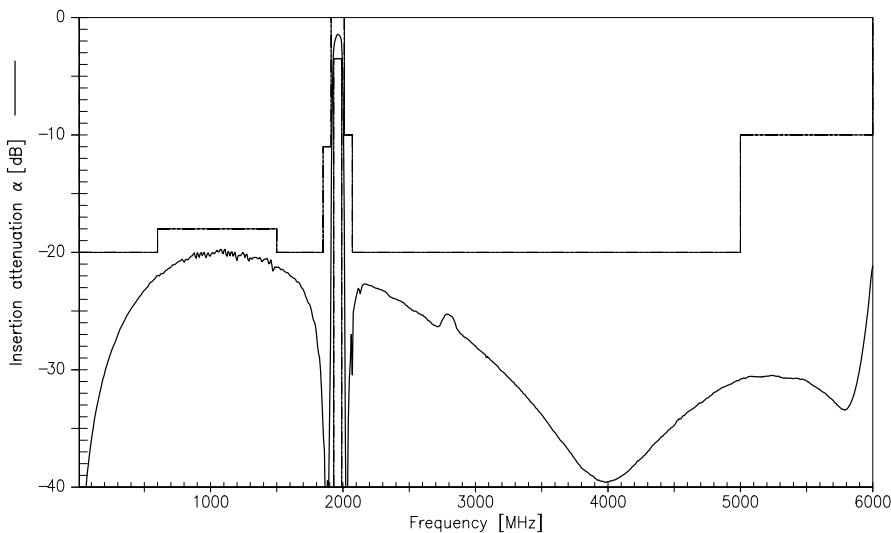
Characteristics

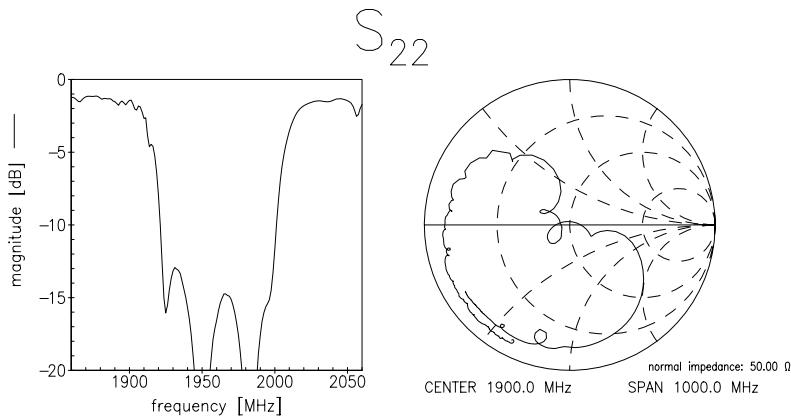
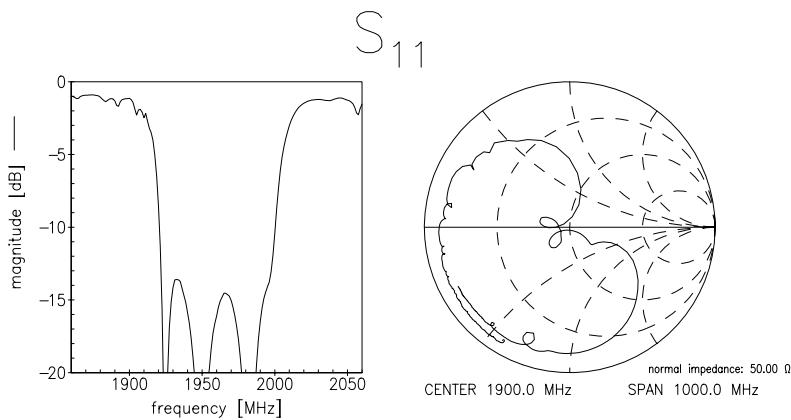
 Operating temperature range: $T = -20$ to $+75^\circ\text{C}$

 Terminating source impedance: $Z_S = 50 \Omega$

 Terminating load impedance: $Z_L = 50 \Omega$

			min.	typ.	max.	
Center frequency		f_c	—	1960,0	—	MHz
Maximum insertion attenuation		α_{\max}	—	3,1	4,3	dB
	1930,0 ... 1990,0	MHz	—	1,6	2,8	dB
Amplitude ripple (p-p)		$\Delta\alpha$	—	1,8	2,1	
	1930,0 ... 1990,0	MHz	—	1,8	2,1	
Input VSWR			—	1,8	2,1	
Output VSWR			—	1,8	2,1	
Attenuation		α	20,0	22,0	—	dB
	10,0 ... 600,0	MHz	18,0	19,5	—	dB
	600,0 ... 1500,0	MHz	20,0	22,0	—	dB
	1500,0 ... 1850,0	MHz	8,5	16,5	—	dB
	1850,0 ... 1910,0	MHz	7,0	13,0	—	dB
	2010,0 ... 2070,0	MHz	20,0	23,0	—	dB
	2070,0 ... 5000,0	MHz	10,0	18,0	—	dB
	5000,0 ... 6000,0	MHz				

**Transfer function (wideband)**



Published by EPCOS AG

Surface Acoustic Wave Components Division, OFW E MF

P.O. Box 80 17 09, D-81617 München

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