



SAW Components

Data Sheet B4148

Data Sheet



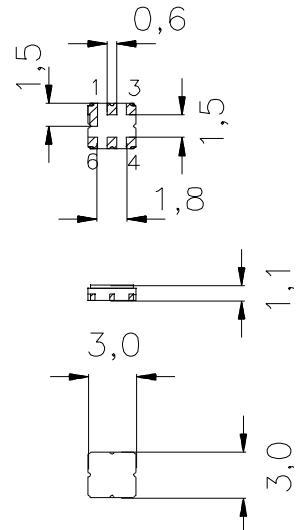


Features

- 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

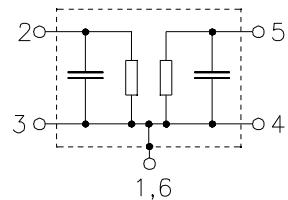
- Ni, gold-plated



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

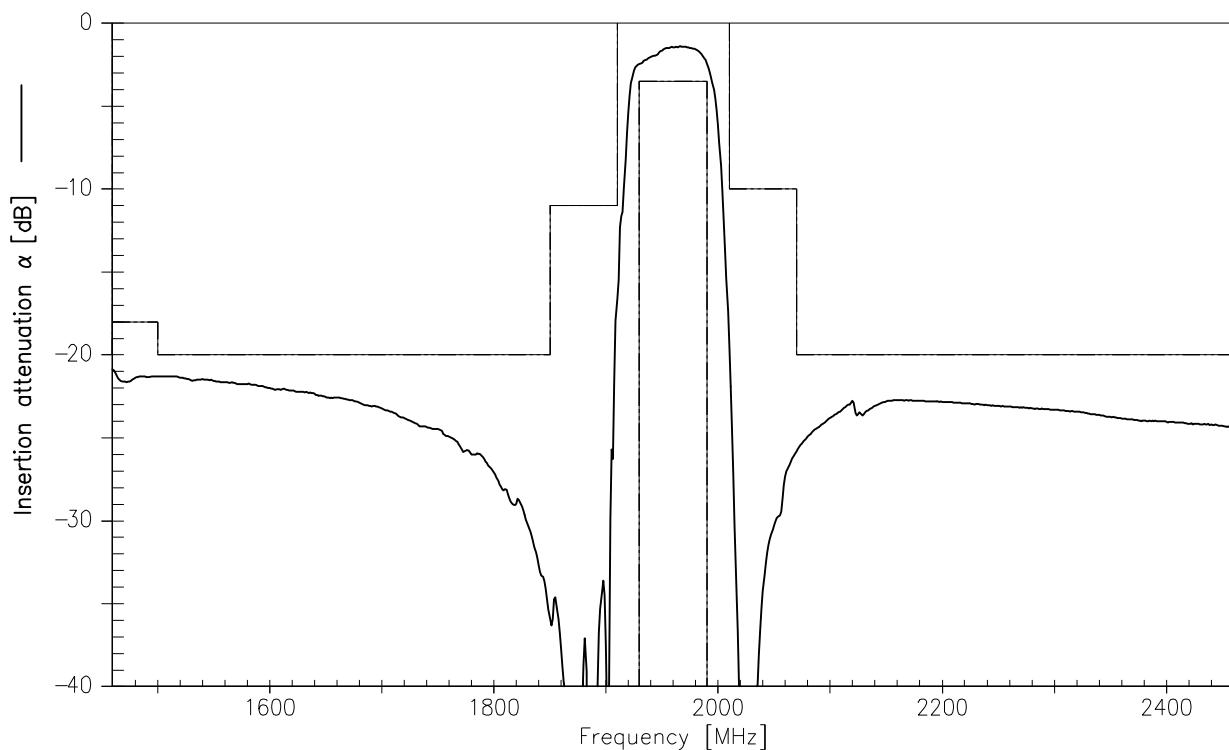
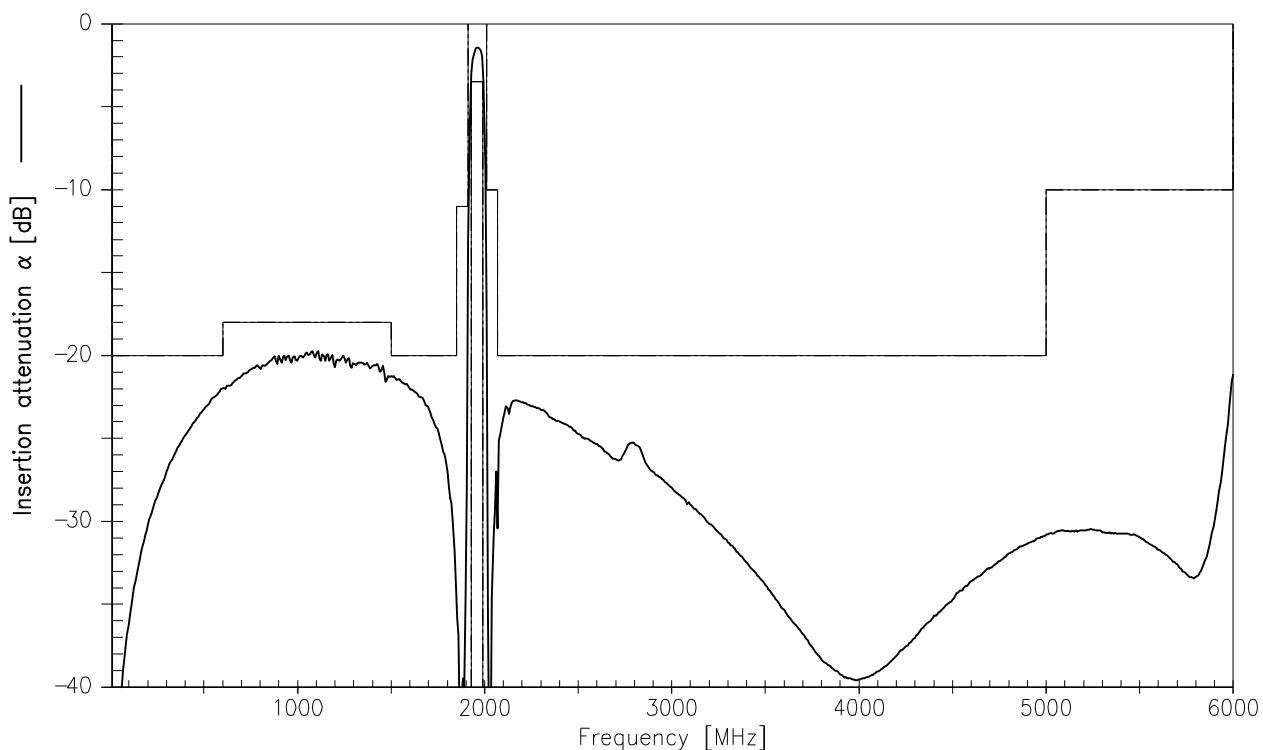
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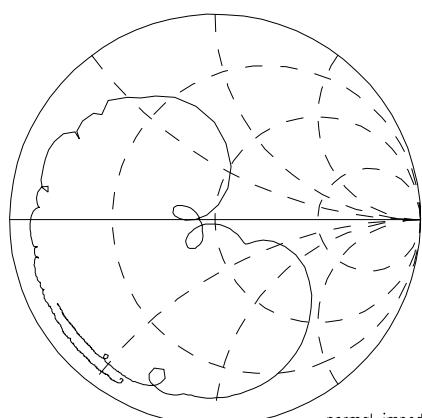
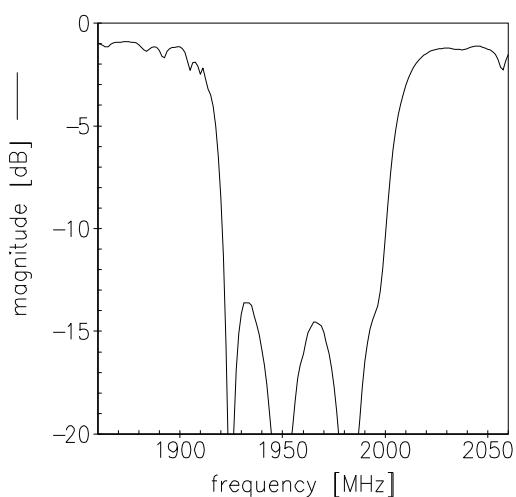


Characteristics

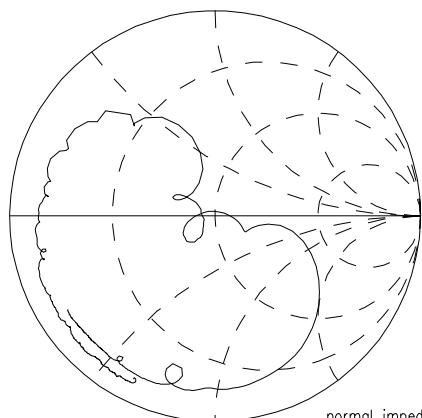
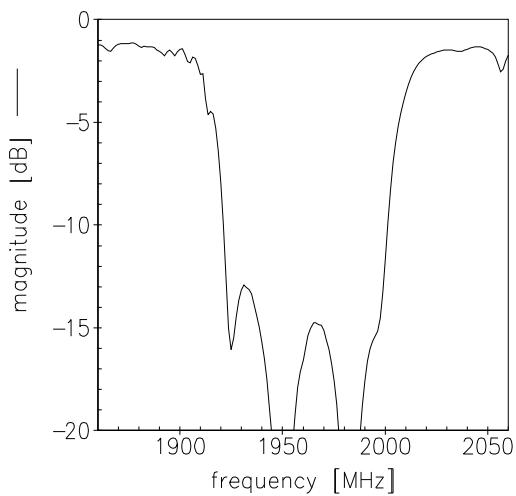
Operating temperature range: $T = -20$ to $+75^\circ\text{C}$ Terminating source impedance: $Z_S = 50 \Omega$ Terminating load impedance: $Z_L = 50 \Omega$

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


Transfer function (wideband)



Reflection functions
 S_{11}


normal impedance: 50.00 Ω
CENTER 1900.0 MHz SPAN 1000.0 MHz

 S_{22}


normal impedance: 50.00 Ω
CENTER 1900.0 MHz SPAN 1000.0 MHz



SAW Components	B4148
Low-Loss Filter for Mobile Communication	1960,00 MHz
Data Sheet	A small rectangular icon containing the letters "SMD" in a stylized font, representing Surface Mount Device.

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