



SAW Components

Data Sheet B4148

Data Sheet

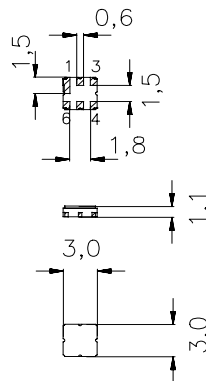
A large, stylized, 3D rendering of the word "EPCOS" in a light gray, sans-serif font. The letters are positioned diagonally across the lower half of the page. The background is a dark, textured surface that resembles a globe or a complex, curved structure, with the word "EPCOS" appearing to be part of it. The overall effect is a sense of depth and modernity.

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

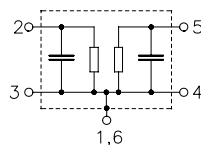
- Ni, gold-plated



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

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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	$\alpha_{\max}$					
1930,0 ... 1990,0 MHz			—	2,8	3,3	dB
Amplitude ripple (p-p)	$\Delta\alpha$					
1930,0 ... 1990,0 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: $Z_S = 50\ \Omega$

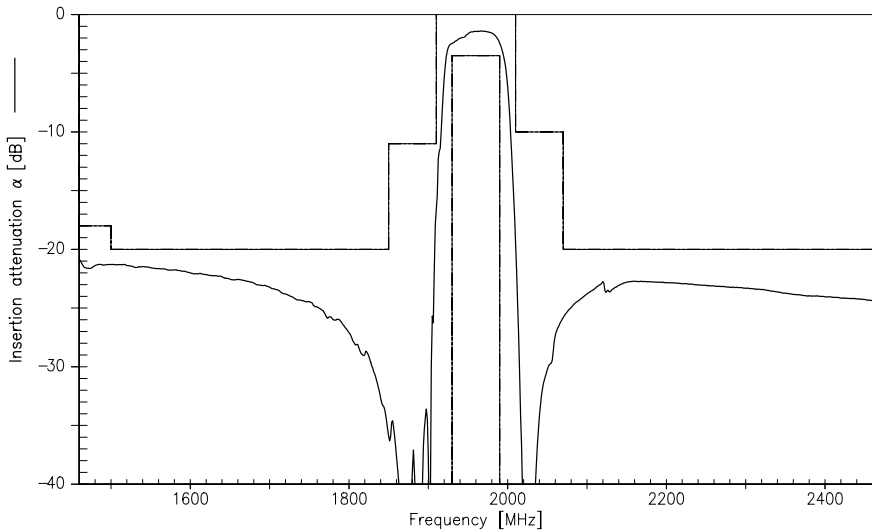
Terminating load impedance: $Z_L = 50\ \Omega$

			min.	typ.	max.	
Center frequency	f_c		—	1960,0	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$					
1930,0 ... 1990,0	MHz		—	3,1	4,3	dB
Amplitude ripple (p-p)	$\Delta\alpha$					
1930,0 ... 1990,0	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

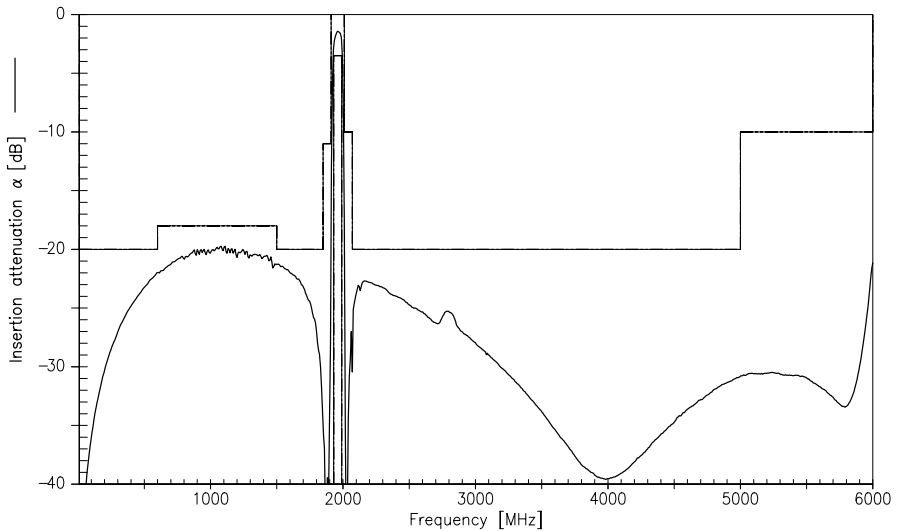
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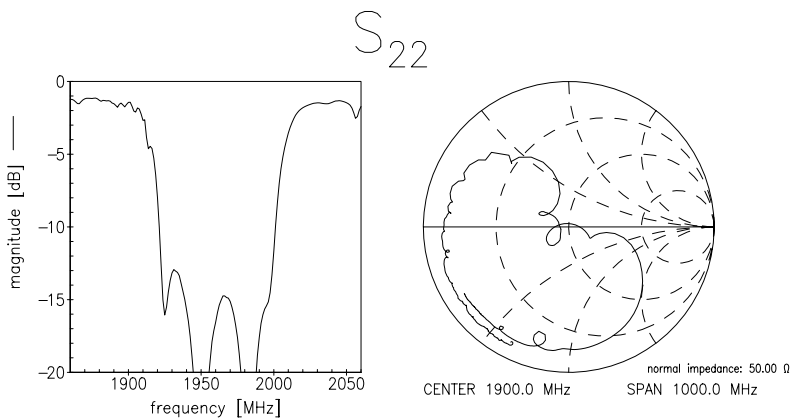
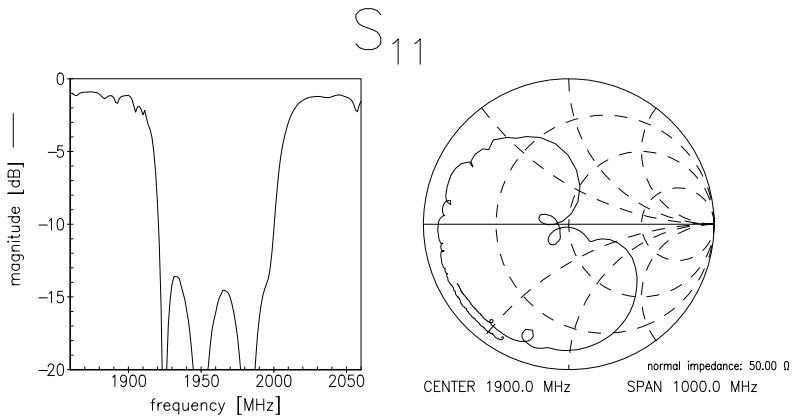
Transfer Function(25°C spec)



Transfer function (wideband)



Reflection functions



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Surface Acoustic Wave Components Division, OFW E MF

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