



SAW Components

Data sheet B4150

Data Sheet

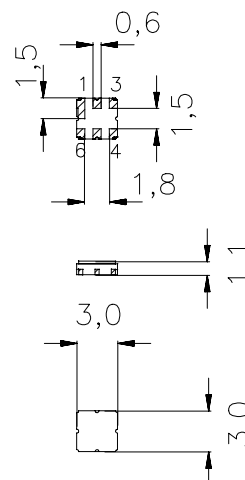
An abstract, grayscale graphic featuring a large, stylized, and slightly blurred "EPCOS" logo. The logo is set against a background of curved, overlapping bands and a faint world map, creating a sense of global connectivity and technological advancement.

Ceramic package DCC6C
Features

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

Terminals

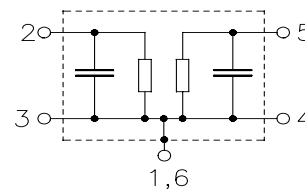
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

Pin configuration

2	Input
1, 3	To Be ground
5	Output
4, 6	To Be ground



Type	Ordering code	Marking and Package according to	Packing according to
B4150	B39202-B4150-U410	C61157-A7-A67	F61074-V8088-Z000

Electrostatic Sensitive Device (ESD)
Maximum ratings

Operable temperature range	T	- 30 /+ 80	$^{\circ}\text{C}$	source and load impedance 50 Ω peak power of TDMA signal, duty cycle 1 : 3 continuous wave
Storage temperature range	T_{stg}	- 40 /+ 85	$^{\circ}\text{C}$	
DC voltage	V_{DC}	0	V	
Input power max. 1930...1990 MHz	P_{IN}	13 10	 dBm dBm	



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Low-Loss Filter for Mobile Communication

1960,0 MHz

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Characteristics

Operating temperature range: $T = 25 \pm 2 \text{ }^{\circ}\text{C}$

Terminating source impedance: $Z_S = 50 \text{ } \Omega$

Terminating load impedance: $Z_L = 50 \text{ } \Omega$

			min.	typ.	max.	
Center frequency	f_c		—	1960,0	—	MHz
Maximum insertion attenuation	$\alpha_{\max}$					
	1930,0 ...1990,0 MHz		—	2,8	3,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$					
	1930,0 ...1990,0 MHz		—	0,9	1,6	dB
Input return loss						
	1930,0 ...1990,0 MHz		9,5	10,5		dB
Output return loss						
	1930,0 ...1990,0 MHz		9,5	10,5		dB
Attenuation	α					
	10,0 ...1850,0 MHz		20,0	21,0	—	dB
	1850,0 ...1910,0 MHz		21,0	30,0	—	dB
	2040,0 ...2100,0 MHz		25,0	27,0	—	dB
	2100,0 ...5000,0 MHz		20,0	25,0	—	dB
	5000,0 ...6000,0 MHz		8,0	18,0	—	dB



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Characteristics

Operating temperature range: $T = -30$ to $+80$ °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	—	3,2	5,3	dB
Amplitude ripple (p-p)	$\Delta\alpha$					
	1930,0 ... 1990,0	MHz	—	1,2	3,2	dB
Input return loss						
	1930,0 ... 1990,0	MHz	9,5	10,5		dB
Output return loss						
	1930,0 ... 1990,0	MHz	9,5	10,5		dB
Attenuation	α					
	10,0 ... 1850,0	MHz	20,0	21,0	—	dB
	1850,0 ... 1910,0	MHz	15,0	20,0	—	dB
	2040,0 ... 2100,0	MHz	25,0	27,0	—	dB
	2100,0 ... 5000,0	MHz	20,0	25,0	—	dB
	5000,0 ... 6000,0	MHz	8,0	18,0	—	dB



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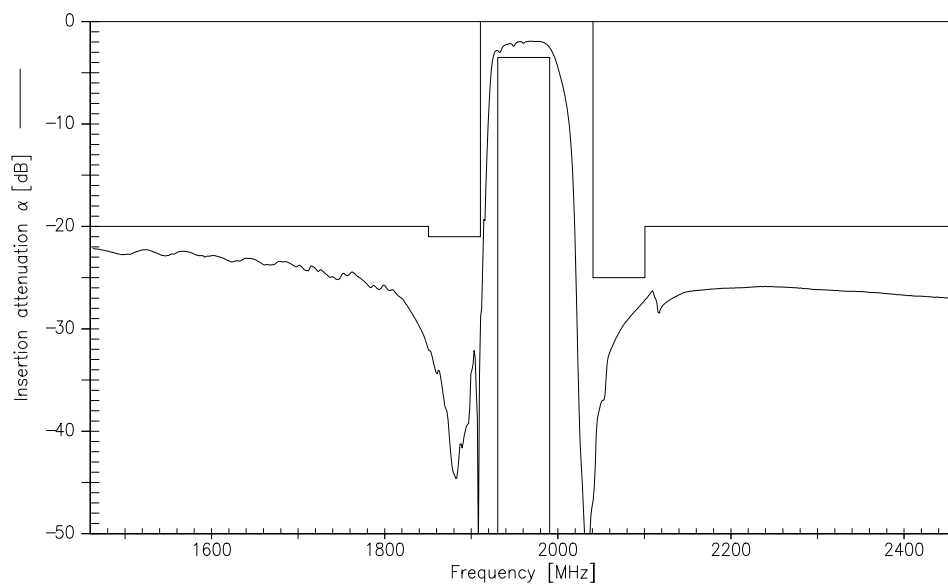
Low-Loss Filter for Mobile Communication

1960,0 MHz

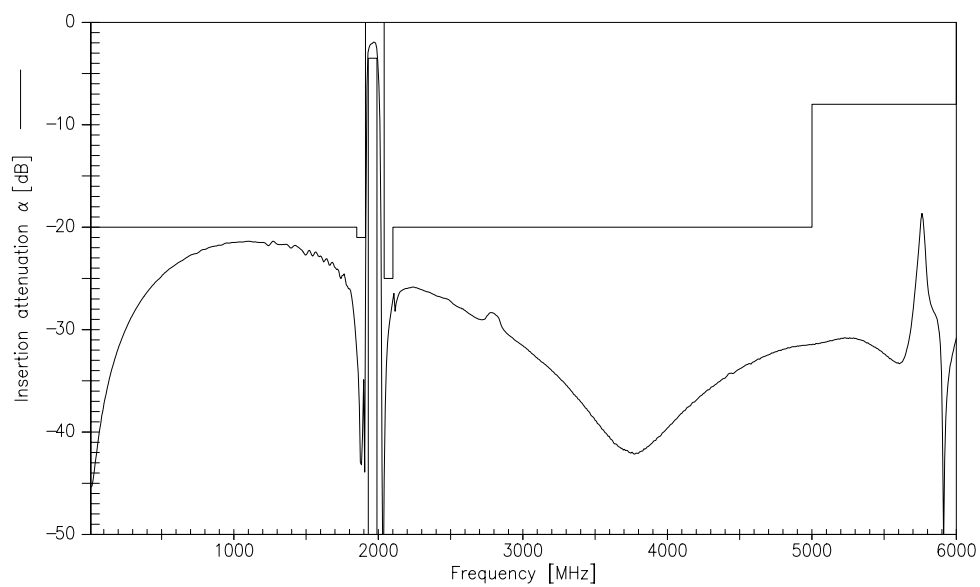
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Transfer function (25 °C spec)



Transfer function (wideband)





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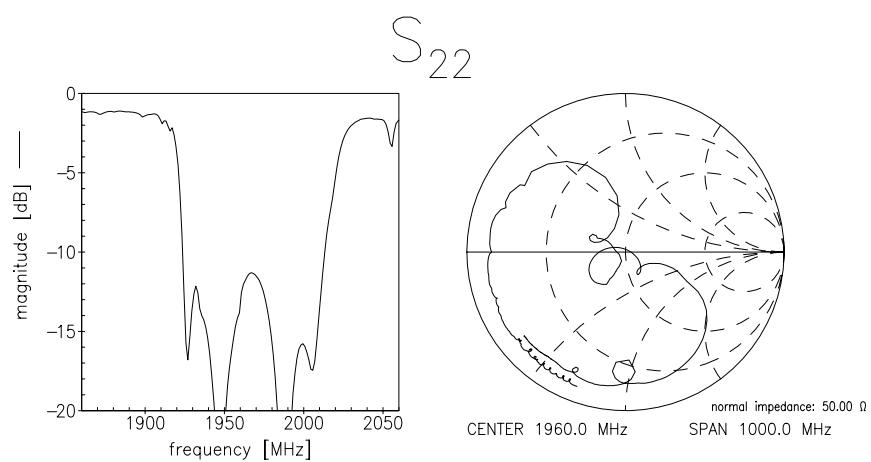
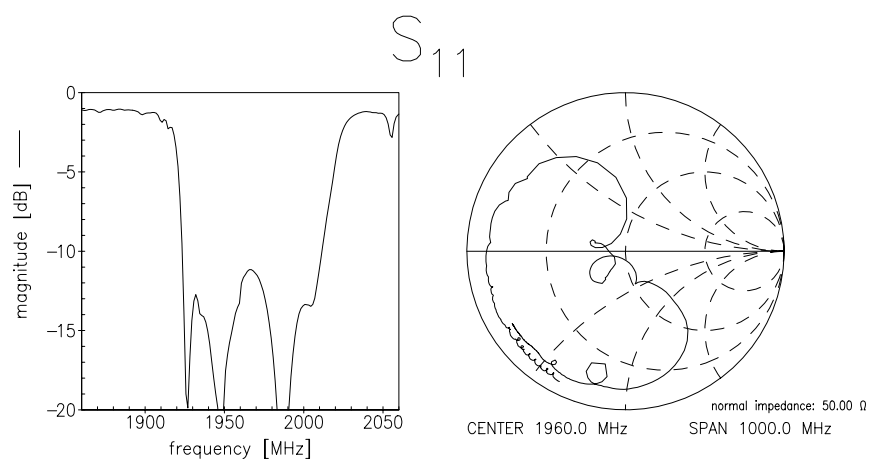
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Reflection functions





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