EPCOS

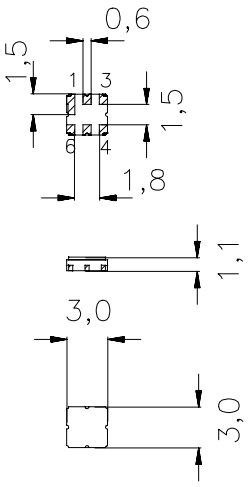
SAW Components

Data sheet B4150

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 **S**urface **M**ounted **T**echnology (**SMT**)



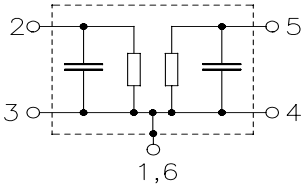
Terminals

- 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 **S**ensitive **D**evice (**ESD**)

Maximum ratings

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

Characteristics

Operating temperature range: T = 25 +- 2 ˚C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

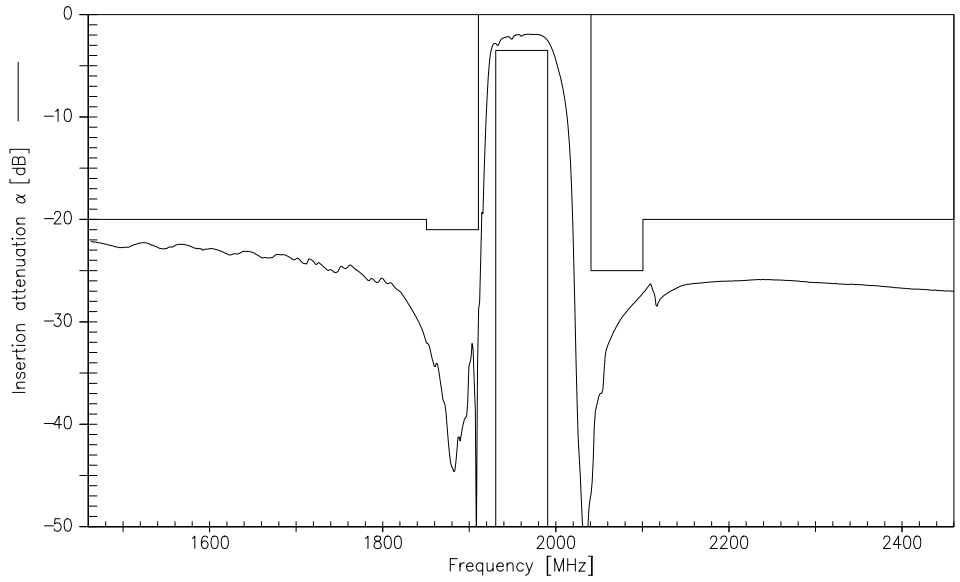
			min.	typ.	max.	
Center frequency	f_c		—	1960,0	—	MHz
Maximum insertion attenuation	α_{max}					
1930,0 ...1990,0		MHz	—	2,8	3,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$					
1930,0 ...1990,0		MHz	—	0,9	1,6	dB
Input return loss						
1930,0 ...1990,0		MHz	9,5	10,5		dB
Output return loss						
1930,0 ...1990,0		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

Characteristics

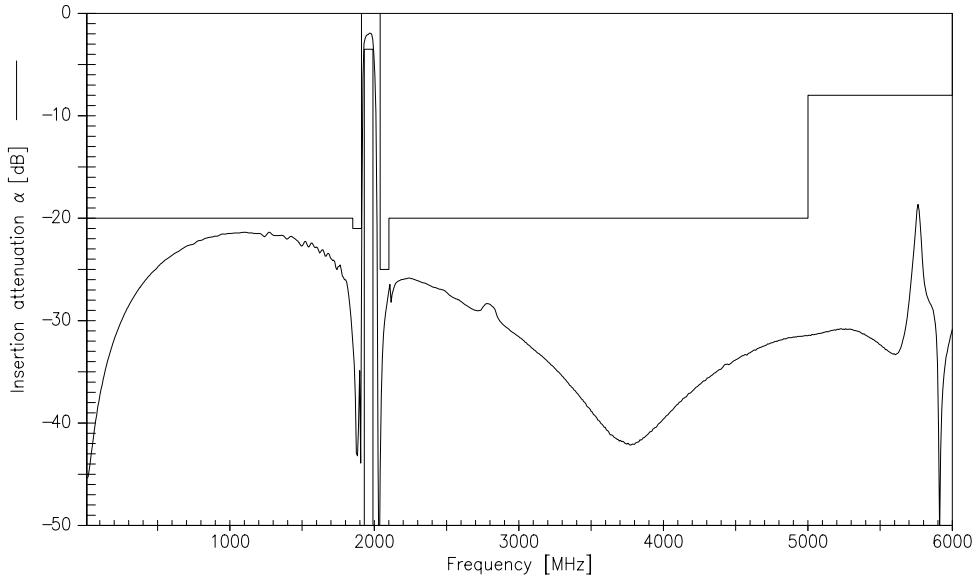
Operating temperature range: T = -30 to +80 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

			min.	typ.	max.	
Center frequency		f_c	—	1960,0	—	MHz
Maximum insertion attenuation		α_{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

Transfer function (25 ˚C spec)

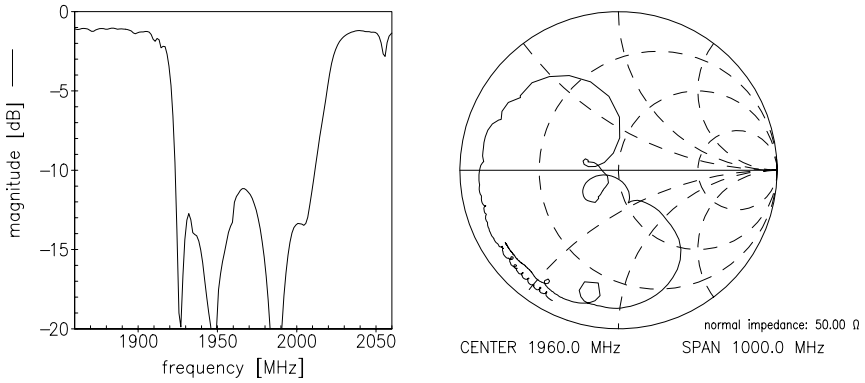


Transfer function (wideband)

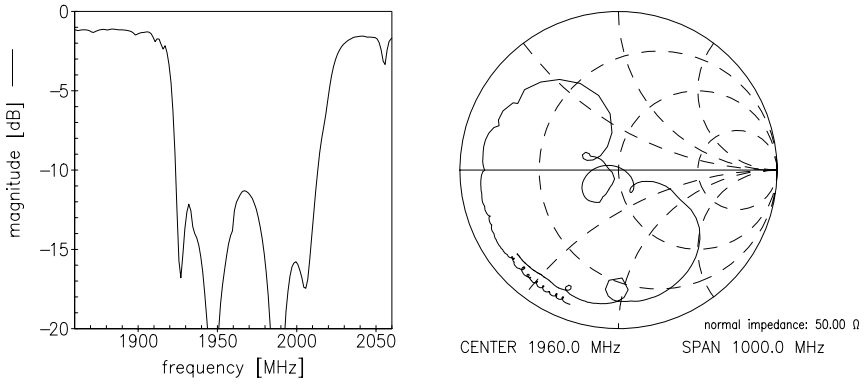


Reflection functions

S_{11}



S_{22}



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