



SAW Components

Data Sheet B4155

Data Sheet

EPCOS



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Low-Loss Filter for Mobile Communication

1960,00 MHz

Data Sheet



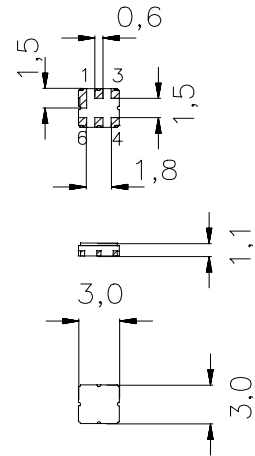
Ceramic package DCC6C

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

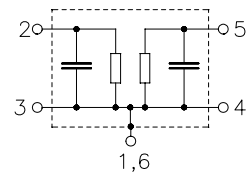
- Ni, gold-plated



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
LB95D	B39202-B4155-U410	C61157-A7-A67	F61074-V8088-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 20/+ 80	$^{\circ}\text{C}$	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	
ESD voltage	V_{ESD}	50	V	
Input power max.	P_{IN}	5	dBm	
		0	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	3,5	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 ... 1830,0	MHz	20,0	22,0	—	dB
	1830,0 ... 1900,0	MHz	20,0	35,0	—	dB
	1900,0 ... 1910,0	MHz	11,0	21,0	—	dB
	2010,0 ... 2020,0	MHz	10,0	17,0	—	dB
	2020,0 ... 2070,0	MHz	20,0	26,0	—	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 $+80^{\circ}\text{C}$
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	4,1	dB
Amplitude ripple (p-p)	$\Delta\alpha$					
	1930,0 ... 1990,0	MHz	—	1,6	2,6	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
	1830,0 ... 1900,0	MHz	15,0	35,0	—	dB
	1900,0 ... 1910,0	MHz	8,5	16,5	—	dB
	2010,0 ... 2020,0	MHz	7,5	13,0	—	dB
	2020,0 ... 2070,0	MHz	15,0	26,0	—	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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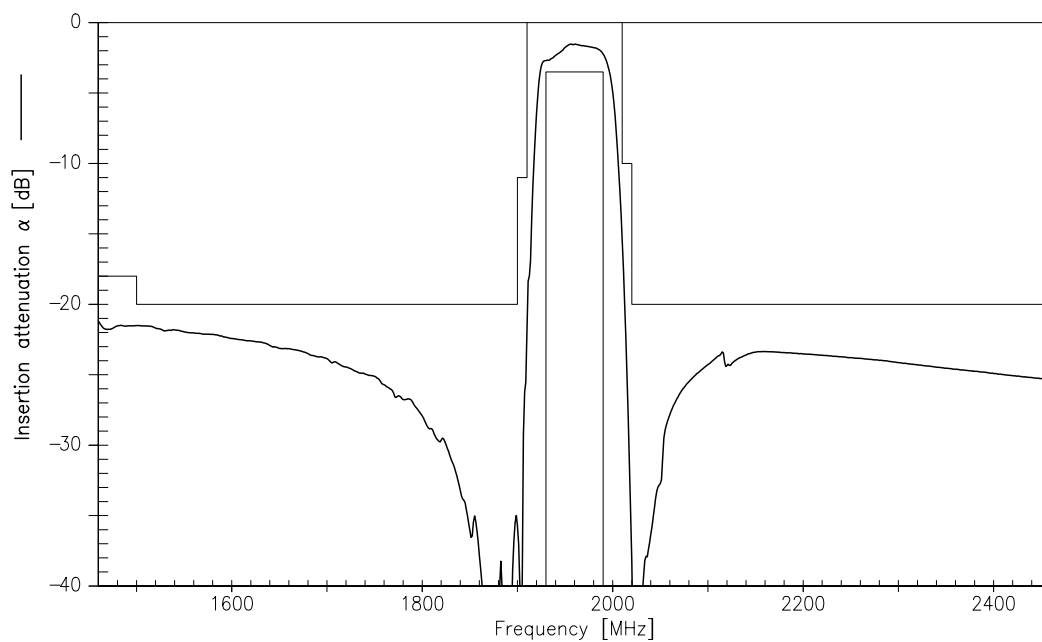
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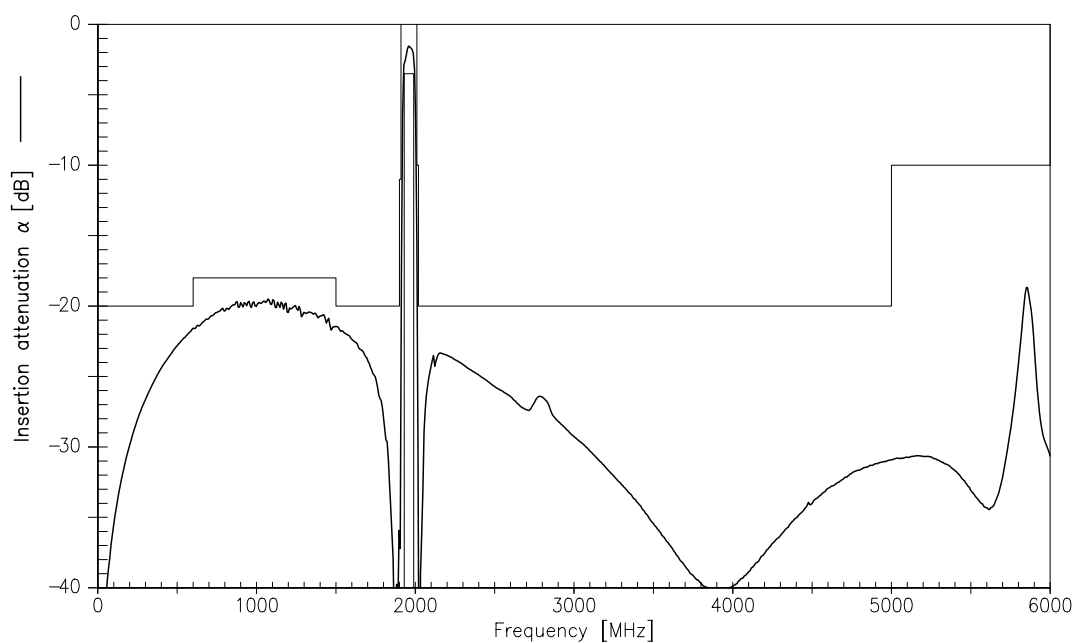
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Transfer function (25°C spec)



Transfer function (wideband)





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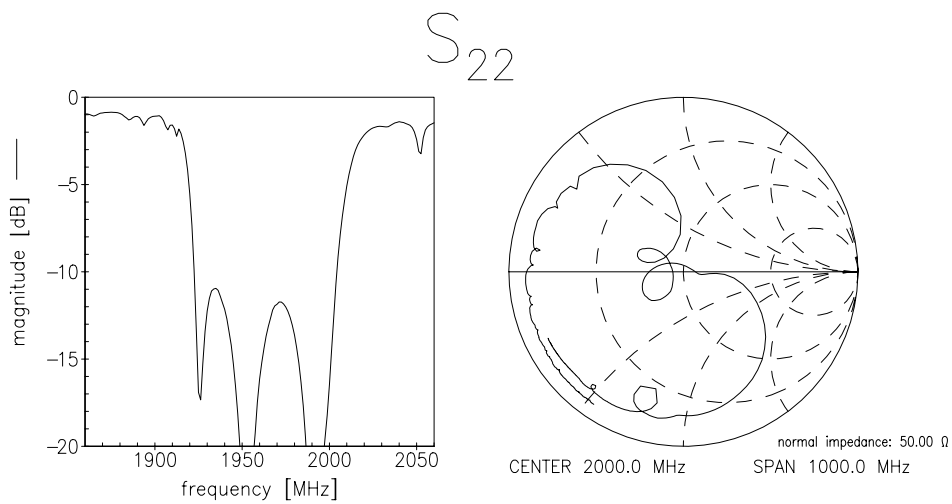
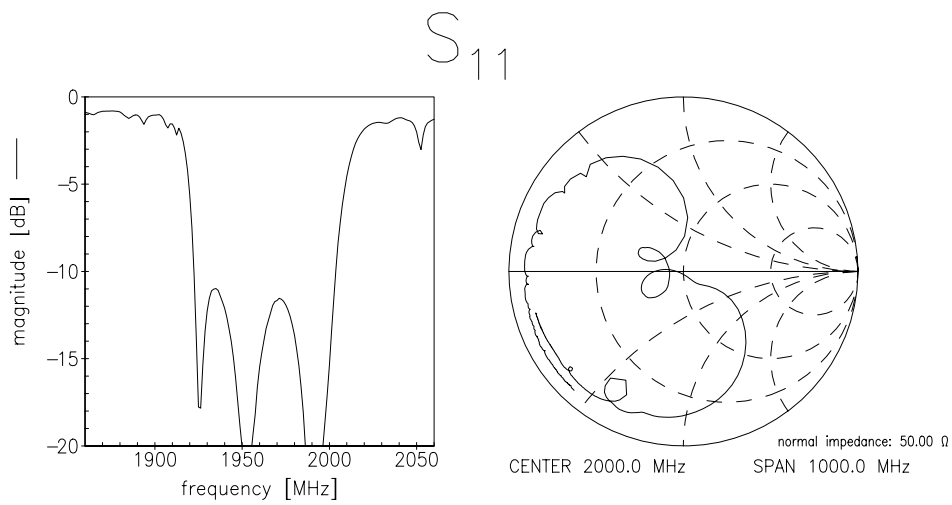
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Reflection functions





SAW Components	B4155
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Data Sheet	SMD

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