



SAW Components

Data Sheet B4152

Data Sheet

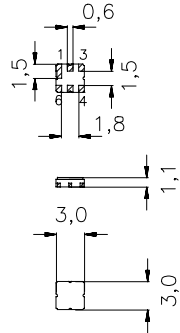


Ceramic package **DCC6D**
Features

- Low-loss RF filter for mobile telephone PCN systems, receive path
- Low amplitude ripple
- Usable passband 75 MHz
- Unbalanced to balanced operation
- Package for **Surface Mounted Technology (SMT)**
- Ceramic SMD package

Terminals

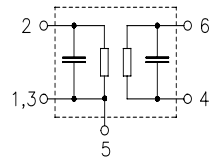
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

Pin configuration

2	Input, unbalanced
4, 6	Output, balanced
1, 3	Input ground
1, 3, 5	To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B4152	B39182-B4152-U510	C61157-A7-A68	F61074-V8089-Z000

Electrostatic Sensitive Device (ESD)
Maximum ratings

Operable temperature range	T	- 10 / + 75	°C	source/load impedance 50Ω/50Ω peak power of GSM signal duty cycle 2:8
Storage temperature range	T_{stg}	- 40 / + 85	°C	
DC voltage	V_{DC}	5	V	
Input power max.	P_{IN}			
1710,0 ... 1785,0 MHz		13	dBm	


Characteristics

Operating Temperature Range:	$T = +25 \pm 2^\circ \text{C}$
Terminating source impedance:	$Z_S = 50 \Omega$ (unbalanced)
Terminating load impedance:	$Z_L = 50 \Omega$ (balanced)

		min.	typ.	max.	
Center frequency	f_C	—	1842,5	—	MHz
Maximum insertion attenuation	α_{\max}				
1805,0 ... 1880,0	MHz	—	3,0	3,8	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
1805,0 ... 1880,0	MHz	—	1,3	2,0	dB
Input VSWR					
1805,0 ... 1880,0	MHz	—	2,8	3,0	dB
Output VSWR					
1805,0 ... 1880,0	MHz	—	2,0	2,7	dB
Attenuation	α				
0 ... 1200,0	MHz	37	41	—	dB
1200,0 ... 1650,0	MHz	25	35	—	dB
1650,0 ... 1705,0	MHz	23	32	—	dB
1705,0 ... 1785,0	MHz	13	15	—	dB
1920,0 ... 1980,0	MHz	10	13	—	dB
1980,0 ... 2000,0	MHz	22	27	—	dB
2050,0 ... 6000,0	MHz	23	30	—	dB

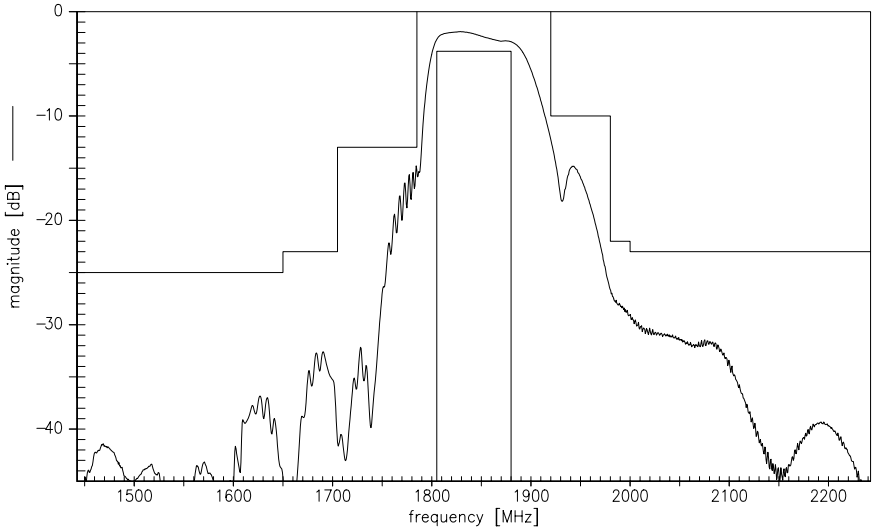
Data Sheet

Characteristics

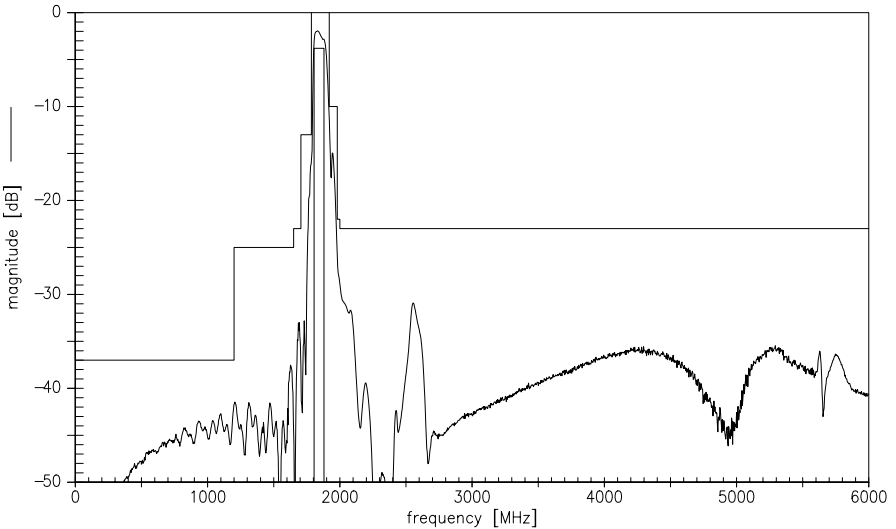
Operating Temperature Range:	$T = -10$ to $+75^{\circ}\text{C}$
Terminating source impedance:	$Z_S = 50\ \Omega$ (unbalanced)
Terminating load impedance:	$Z_L = 50\ \Omega$ (balanced)

		min.	typ.	max.	
Center frequency	f_C	—	1842,5	—	MHz
Maximum insertion attenuation	α_{\max}	—	3,2	4,3	dB
	1805,0 ... 1880,0 MHz				
Amplitude ripple (p-p)	$\Delta\alpha$	—	1,5	2,5	dB
	1805,0 ... 1880,0 MHz				
Input VSWR		—	2,8	3,3	dB
	1805,0 ... 1880,0 MHz				
Output VSWR		—	2,1	3,0	dB
	1805,0 ... 1880,0 MHz				
Attenuation	α				
	0 ... 1200,0 MHz	37	41	—	dB
	1200,0 ... 1650,0 MHz	25	35	—	dB
	1650,0 ... 1705,0 MHz	23	32	—	dB
	1705,0 ... 1785,0 MHz	10	15	—	dB
	1920,0 ... 1980,0 MHz	9	13	—	dB
	1980,0 ... 2000,0 MHz	22	26	—	dB
	2050,0 ... 6000,0 MHz	23	30	—	dB

Transfer function



Transfer function (wide band)



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