



SAW Components

Data sheet B4150





SAW Components

B4150

Low-Loss Filter for Mobile Communication

1960,0 MHz

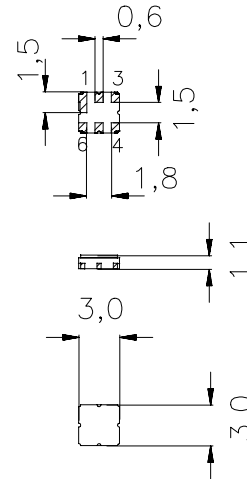
Data sheet



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)**



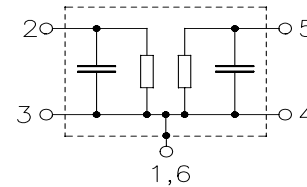
Terminals

- 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	°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	°C	
DC voltage	V_{DC}	0	V	
Input power max. 1930...1990 MHz	P_{IN}	13	dBm	
		10	dBm	



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	1930,0 ... 1990,0	MHz	α_{\max}	—	2,8	3,5	dB	
Amplitude ripple (p-p)	1930,0 ... 1990,0	MHz	$\Delta\alpha$	—	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	



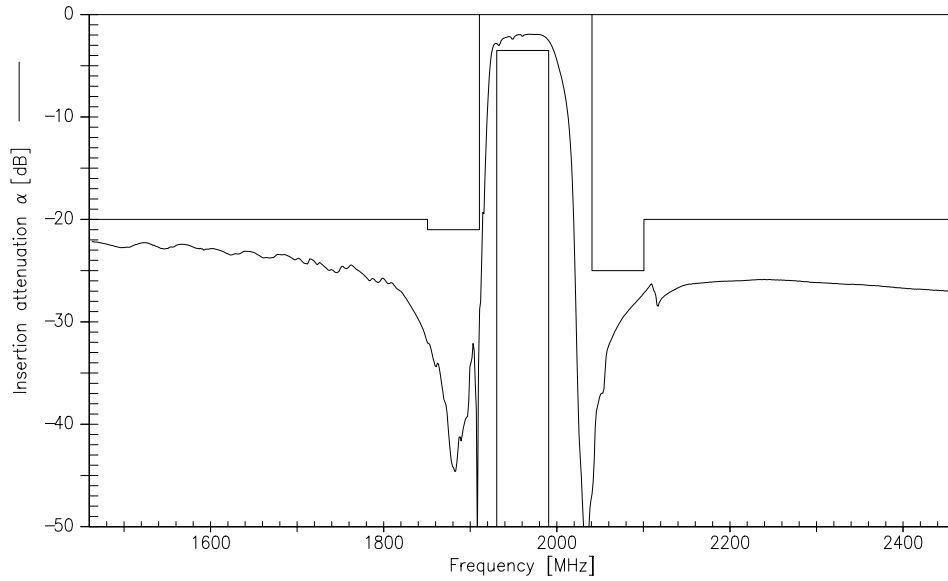
Characteristics

Operating temperature range: $T = -30 \text{ to } +80 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega$
 Terminating load impedance: $Z_L = 50 \text{ } \Omega$

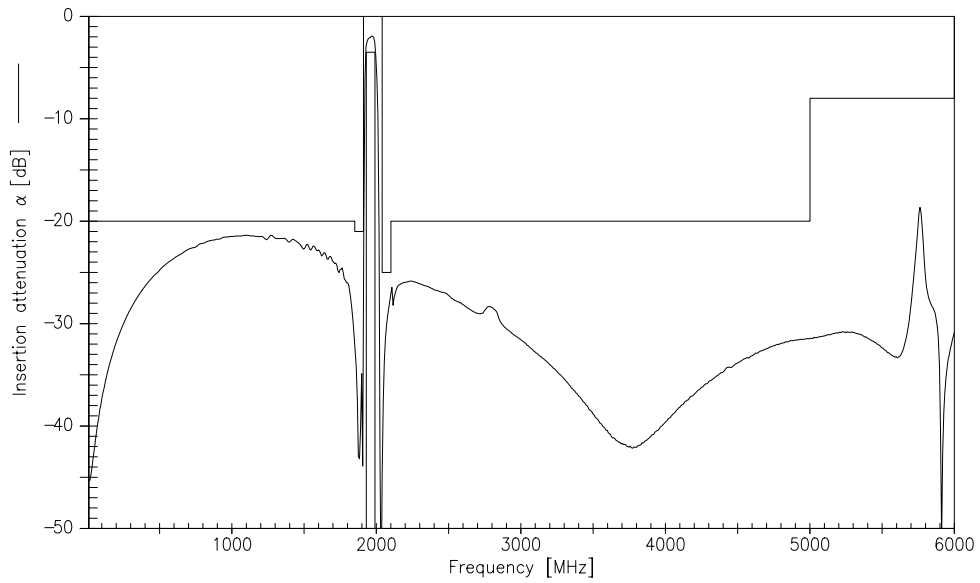
			min.	typ.	max.	
Center frequency	f_c		—	1960,0	—	MHz
Maximum insertion attenuation	α_{\max}		—	3,2	5,3	dB
1930,0 ... 1990,0	MHz					
Amplitude ripple (p-p)	$\Delta\alpha$		—	1,2	3,2	dB
1930,0 ... 1990,0	MHz					
Input return loss			9,5	10,5		dB
1930,0 ... 1990,0	MHz					
Output return loss			9,5	10,5		dB
1930,0 ... 1990,0	MHz					
Attenuation	α					dB
10,0 ... 1850,0	MHz		20,0	21,0	—	
1850,0 ... 1910,0	MHz		15,0	20,0	—	
2040,0 ... 2100,0	MHz		25,0	27,0	—	
2100,0 ... 5000,0	MHz		20,0	25,0	—	
5000,0 ... 6000,0	MHz		8,0	18,0	—	



Transfer function (25 °C spec)

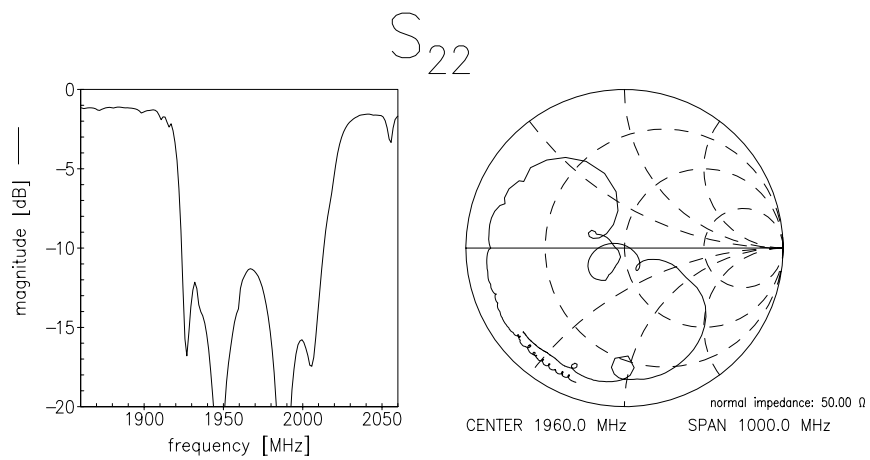
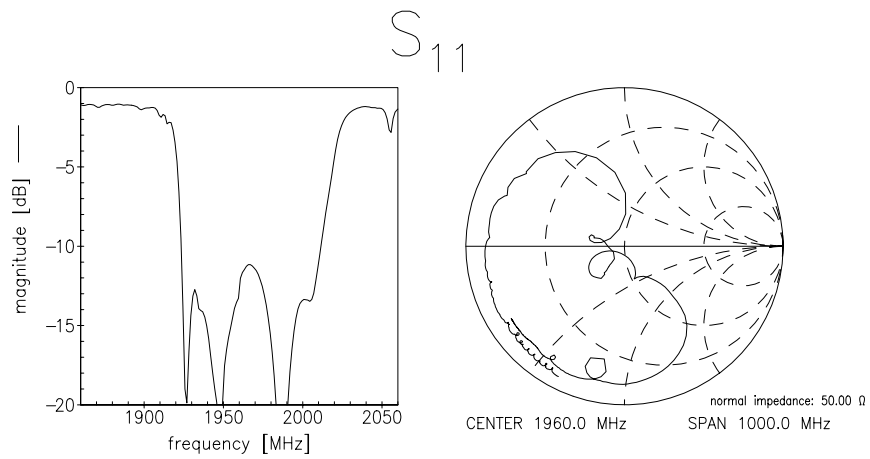


Transfer function (wideband)





Reflection functions





SAW Components

B4150

Low-Loss Filter for Mobile Communication

1960,0 MHz

Data sheet



Published by EPCOS AG

Surface Acoustic Wave Components Division, OFW E MF

P.O. Box 80 17 09, D-81617 München

© EPCOS AG 1999. All Rights Reserved.

As far as patents or other rights of third parties are concerned, liability is only assumed for components per se, not for applications, processes and circuits implemented within components or assemblies.

The information describes the type of component and shall not be considered as assured characteristics.

Terms of delivery and rights to change design reserved.

For questions on technology, prices and delivery please contact the sales offices of EPCOS AG or the international representatives.

Due to technical requirements components may contain dangerous substances. For information on the type in question please also contact one of our sales offices.