EPCOS

SAW Components

Data Sheet B4146

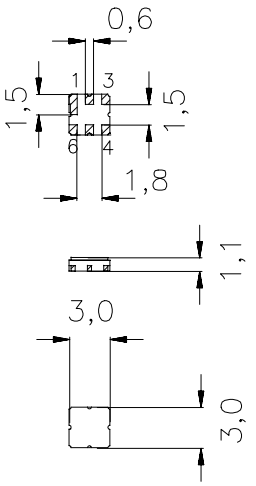
Ceramic package **DCC6D**

Features

- Low-loss RF filter for mobile telephone AMPS system, receive path
- Low amplitude ripple
- Usable passband 25 MHz
- Unbalanced to balanced operation
- Impedance transformation from 50 Ω to 200 Ω
- Ceramic package for **S**urface **M**ounted **T**echnology (**SMT**)

Terminals

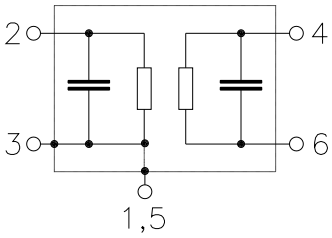
- Ni, gold-plated



Dimensions in mm, approx. weight 0,037 g

Pin configuration

2	Input
4	Balanced output
6	Balanced output
1, 3, 5	Ground, to be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B4146	B39881-B4146-U510	C61157-A7-A68	F61074-V8089-Z000

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

Maximum ratings

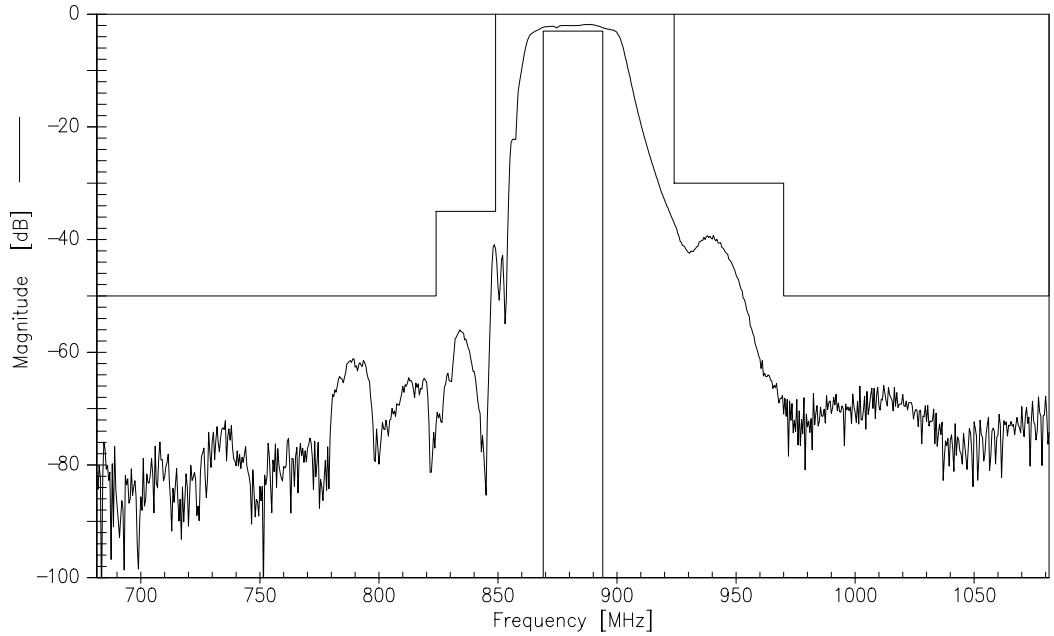
Operable temperature range	T	– 30 / + 85	˚C	
Storage temperature range	T_{stg}	– 40 / + 85	˚C	
DC voltage	V_{DC}	5	V	
ESD	V_{ESD}	50	V	Human Body Model
Input power max.	P_{IN}	5	dBm	source impedance 50 Ω

Characteristics

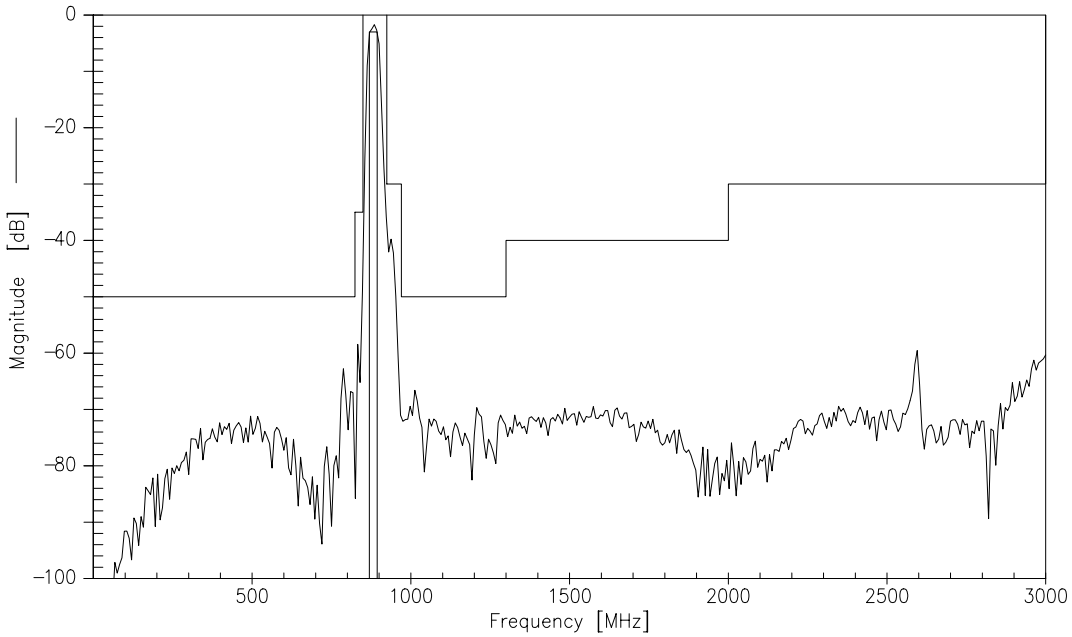
Operating temperature range: T = -30 to +85 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 200 Ω || 68nH(balanced)

		min.	typ.	max.	
Center frequency	f_C	—	881,5	—	MHz
Maximum insertion attenuation	α_{max}				
869,0 ... 894,0 MHz		—	2,5	3,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
869,0 ... 894,0 MHz		—	0,7	1,2	dB
VSWR					
869,0 ... 894,0 MHz		—	1,8	1,9	
Attenuation	α				
0,0 ... 824,0 MHz		50,0	60,0	—	dB
824,0 ... 849,0 MHz		35,0	40,0	—	dB
924,0 ... 970,0 MHz		30,0	40,0	—	dB
970,0 ...1300,0 MHz		50,0	65,0	—	dB
1300,0 ...2000,0 MHz		40,0	60,0	—	dB
2000,0 ...3000,0 MHz		30,0	50,0	—	dB

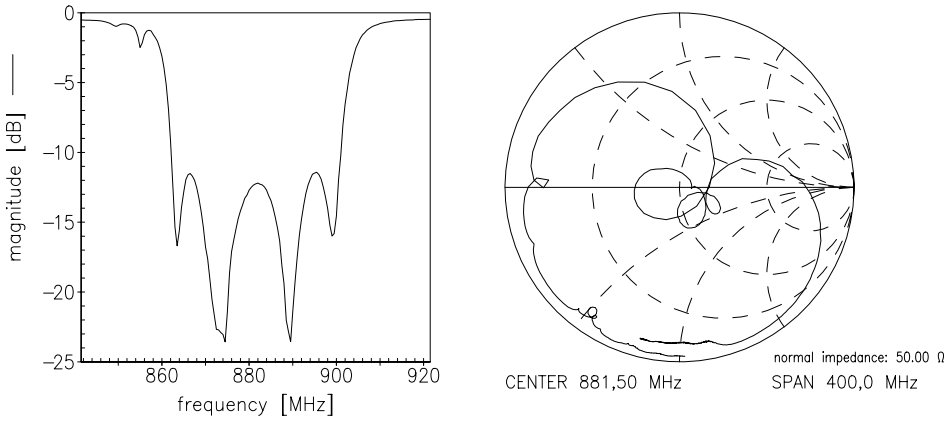
Transfer function



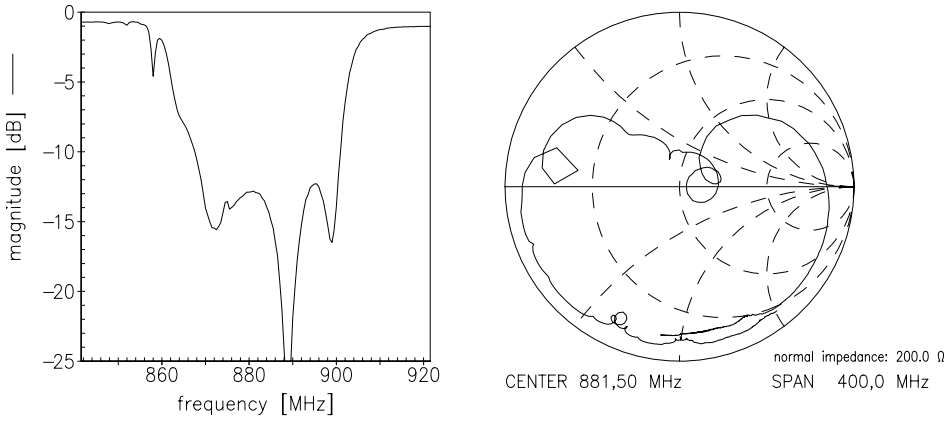
Transfer function



S_{11}


0
-5
-10
-15
-20
-25
magnitude [dB]
860
880
900
920
frequency [MHz]
normal impedance: 50.00 Ω
CENTER 881,50 MHz
SPAN 400,0 MHz

S_{22}


0
-5
-10
-15
-20
-25
magnitude [dB]
860
880
900
920
frequency [MHz]
normal impedance: 200.0 Ω
CENTER 881,50 MHz
SPAN 400,0 MHz

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The information contained in this brochure describes the type of component and shall not be considered as guaranteed characteristics. Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

This brochure replaces the previous edition.

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