

SAW Components

Data Sheet B4146





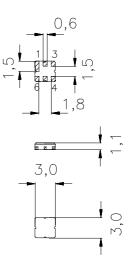
SAW Components		B4146
Low-Loss Filter for Mob	ile Communication	881,50 MHz
Data Sheet		
		Ceramic package DCC6D

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 Surface Mounted Technology (SMT)

Terminals

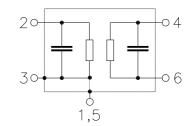
• Ni, gold-plated



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



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

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Т	- 40 / + 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.	$P_{\rm IN}$	5	dBm	source impedance 50 Ω

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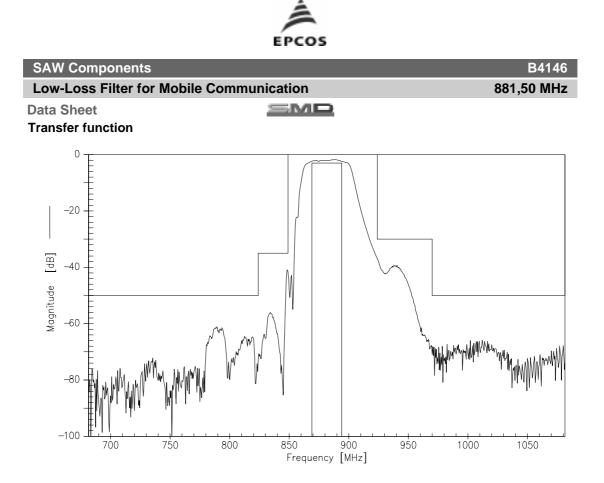


SAW Components						l	B4146
Low-Loss Filter for Mobile Communication					881,5	881,50 MHz	
Data Sheet	9	ВM					
Characteristics							
Operating temperature range: $T = -30$ to $+85$ °CTerminating source impedance: $Z_{\rm S} = 50 \ \Omega$ Terminating load impedance: $Z_{\rm L} = 200 \ \Omega \parallel 68$ nH(balanced)							
				min.	typ.	max.	
Center frequency			f _C	_	881,5	—	MHz
Maximum insertion attenuation 869,0 89	94,0 N	ИНz	$lpha_{max}$	_	2,5	3,0	dB
Amplitude ripple (p-p) 869,0 89	94,0 N	ИНz	Δα	_	0,7	1,2	dB
VSWR 869,0 89	94,0 N	ИНz		_	1,8	1,9	
Attenuation			α				
0,0 82 824,0 84 924,0 97 970,0130 1300,0200 2000,0300	49,0 N 70,0 N 00,0 N 00,0 N	MHz MHz MHz MHz MHz MHz		50,0 35,0 30,0 50,0 40,0 30,0	60,0 40,0 40,0 65,0 60,0 50,0		dB dB dB dB dB dB

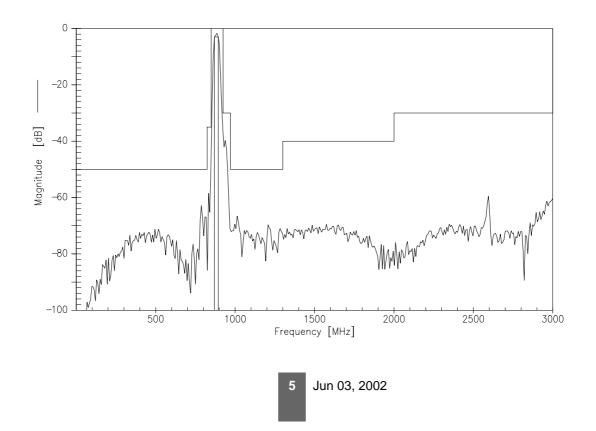
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SAW Components				B4146		
Low-Loss Filter for Mobile Communication					50 MHz	
Data Sheet	SMD					
Characteristics						
Operating temperature range:		to +85 °C				
Terminating source impedance:	$Z_{\rm S} = 50 \Omega$					
Terminating load impedance:	$Z_{\rm L} = 200$) Ω 68nH(balanced)			
		min.	typ.	max.		
Center frequency	f _C	_	881,5		MHz	
•• • • • •						
Maximum insertion attenuation	α _{max}					
869,0 894,0	MHz		2,8	3,1	dB	
Amplitude ripple (p-p)	Δα					
869,0 894,0	MHz	_	1,0	1,3	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	
970,01300,0	MHz	50,0	65,0	—	dB	
1300,02000,0	MHz	40,0	60,0		dB	
2000,03000,0	MHz	30,0	50,0		dB	

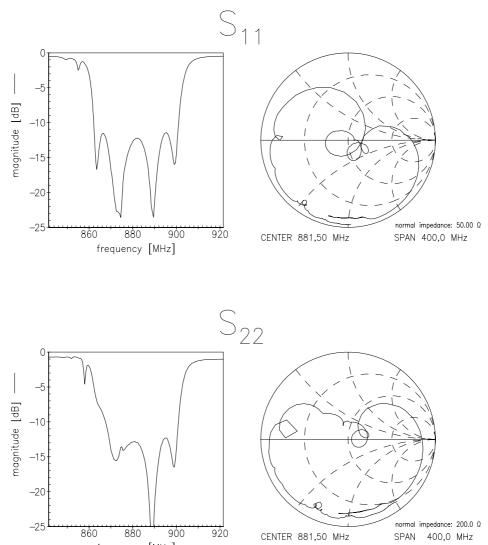


Transfer function





SAW Components	B4146	
Low-Loss Filter for Mo	881,50 MHz	
Data Sheet	SMD	



frequency [MHz]

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SAW Components	B4146			
Low-Loss Filter for Mobile Communication		881,50 MHz		
Data Sheet	SMD			

Published by EPCOS AG Surface Acoustic Wave Components Division, SAW MC WT P.O. Box 80 17 09, D-81617 München

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This brochure replaces the previous edition.

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