

# SAW Components

Data Sheet B7733



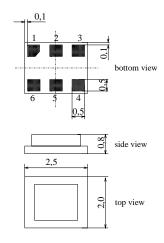


SAW Components		B7733
Low-Loss Filter for Mot	ile Communication	881,5 MHz
Data Sheet	<u>SMD</u>	

#### Features

- Low-loss RF filter for mobile telephone cellular system, receive path
- Low amplitude ripple
- Usable passband 25 MHz
- Unbalanced to balanced operation
- Impedance transformation from 50  $\Omega$  to100  $\Omega$
- Package for Surface Mounted Technology (SMT)

## Chip Size SAW package DCS6I

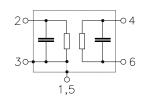


### Terminals

Ni, gold-plated

## Dimensions in mm, approx. weight 0,014g

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
B7733	B39881-B7733-C610	C61157-A7-A76	F61074-V8153-Z000

Electrostatic Sensitive Device (ESD)

#### **Maximum ratings**

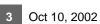
Operable temperature range	Т	– 40 / + 85	°C	
Storage temperature range	T <sub>stg</sub>	– 40 / + 85	°C	
DC voltage	V <sub>DC</sub>	5	V	
Input power max.				
	P <sub>IN</sub>	0	dBm	source impedance 50 $\Omega$
				CDMA signal



Oct 10, 2002

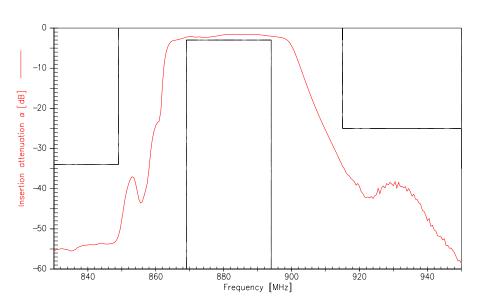


SAW Components						B7733
Low-Loss Filter for Mobile Communication				881	,5 MHz	
Data Sheet		<b>4D</b>				
Characteristics						
Operating temperature range:			o +85 °C			
Terminating source impedance:			(unbalance			
Terminating load impedance:	$Z_{L}$	= 100 9	$\Omega$ (balance)	d)		
			min.	typ.	max.	
Center frequency		f <sub>C</sub>		881,5	—	MHz
Maximum insertion attenuation		$\alpha_{max}$				
869,0 894,0	MHz	max		2,7	3,0	dB
Amplitude ripple (p-p)		Δα				
869,0 894,0	MHz		_	1,2	1,5	dB
Input VSWR						
869,0 894,0	MHz		_	2,0	2,1	
Output VSWR						
869,0 894,0	MHz		_	2,0	2,1	
Output amplitude imbalance ( S <sub>31</sub> /S <sub>21</sub>  )						
869,0 894,0	MHz		-1,5	—	2,0	dB
Output phase imbalance $(\phi(S_{31})-\phi(S_{21})+180^{\circ})$						
869,0 894,0			-5,0	_	7,0	degree
Attenuation		α				
0,0 824,0	MHz		46,0	53,0		dB
824,0 849,0	MHz		34,0	41,0	_	dB
915,01000,0	MHz		25,0	30,0	—	dB
1000,02000,0	MHz		35,0	47,0	—	dB
2000,03000,0	MHz		30,0	40,0	—	dB

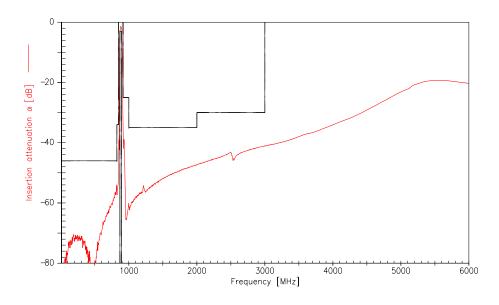




**Transfer function** 

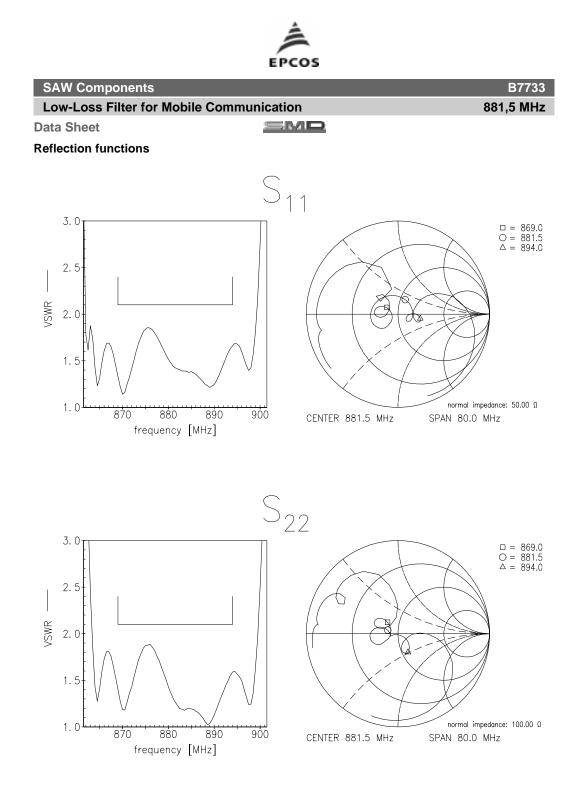


Transfer function (wideband)



4

Oct 10, 2002

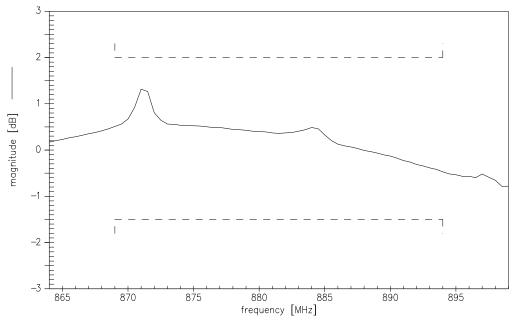


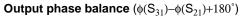
Oct 10, 2002

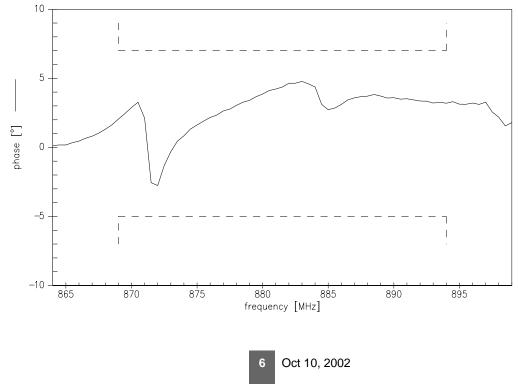
5



Output amplitude balance ( $|S_{31}/S_{21}|$ )







	ÉPCOS	
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