

SAW Components

Data Sheet B7733





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B7733

Low-Loss Filter for Mobile Communication

881,5 MHz

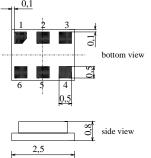
Data Sheet



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 Ω to 100 Ω
- Package for Surface Mounted Technology (SMT)

Chip Size SAW package DCS6I



2,5 top view

Terminals

Ni, gold-plated

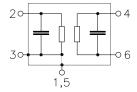
Dimensions in mm, approx. weight 0,014g

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	T	- 40 / + 85	°C	
Storage temperature range	$T_{ m stg}$	- 40 / + 85	°C	
DC voltage	$V_{\rm DC}$	5	V	
Input power max.				
	P_{IN}	0	dBm	source impedance 50 Ω
				CDMA signal



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Characteristics

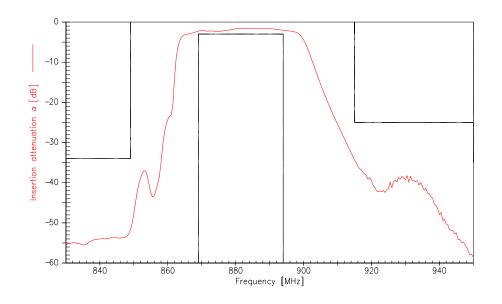
Operating temperature range: T = -30 to +85 °CTerminating source impedance: $Z_{\text{S}} = 50 \Omega \text{ (unbalanced)}$ Terminating load impedance: $Z_{\text{L}} = 100 \Omega \text{ (balanced)}$

			min.	typ.	max.	
Center frequency		f _C	_	881,5	_	MHz
Maximum insertion attenuation		α_{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_{31}/S_{21} $)						
869,0 894,0	MHz		-1,5	_	2,0	dB
Output phase imbalance $(\phi(S_{31})-\phi(S_{21})$	+180°)					
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

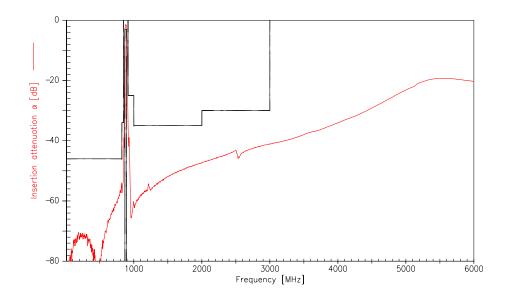




Transfer function



Transfer function (wideband)

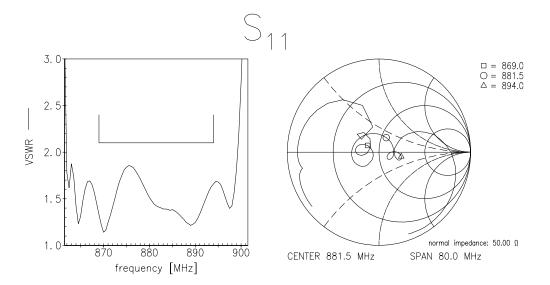


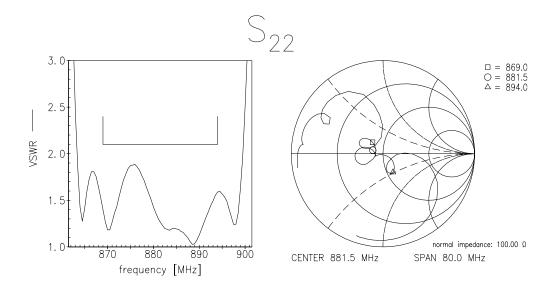


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Reflection functions

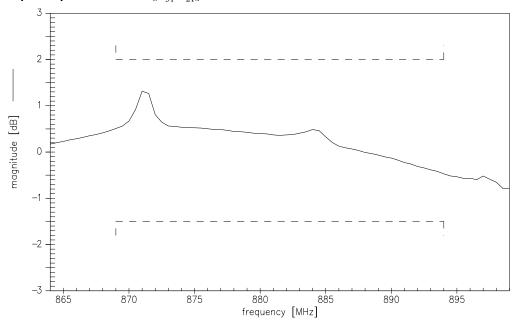




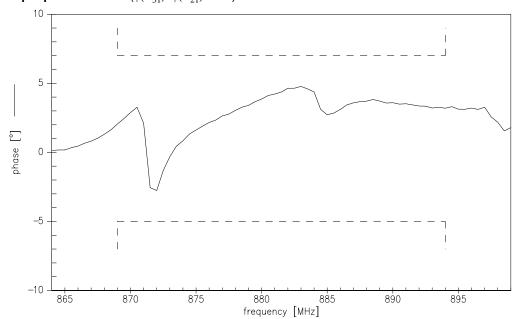




Output amplitude balance ($|S_{31}/S_{21}|$)



Output phase balance ($\phi(S_{31})-\phi(S_{21})+180^{\circ}$)



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