

Data Sheet B7733





B7733

Low-Loss Filter for Mobile Communication

881,5 MHz

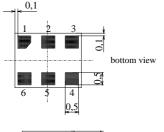
Data Sheet

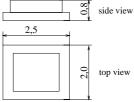


Features

- 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 to100 Ω
- Package for Surface Mounted Technology (SMT)

Chip Size SAW package DCS6I





Terminals

Ni, gold-plated

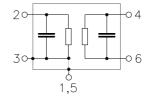
Dimensions in mm, approx. weight 0,014g

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	T	- 40 / + 85	°C	
Storage temperature range	T_{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

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

			min.	typ.	max.	
Center frequency		$f_{\mathbb{C}}$	_	881,5	_	MHz
Maximum insertion attenuation 869,0 894,0	MHz	α_{max}		2,7	3,0	dB
303,0 834,0	IVII IZ		_	2,1	3,0	UD
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	
809,0 894,0	IVITIZ			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 $(\phi(S_{31})-\phi(S_{21})+180^{\circ})$						
869,0 894,0			-5,0		7,0	degree
000,0 004,0	1711 12		-3,0		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

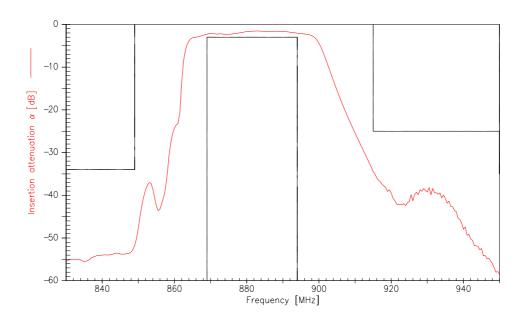


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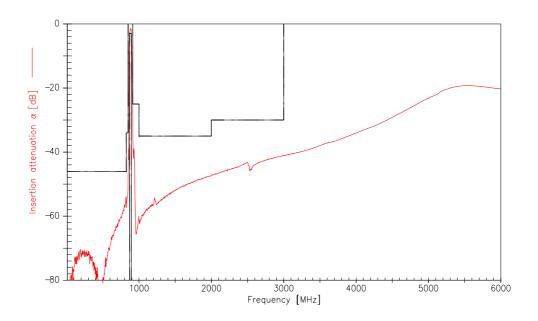
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Transfer function



Transfer function (wideband)





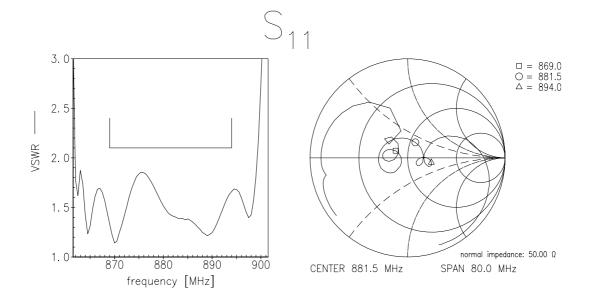
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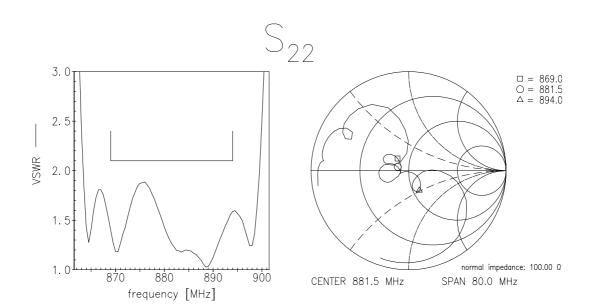
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Reflection functions





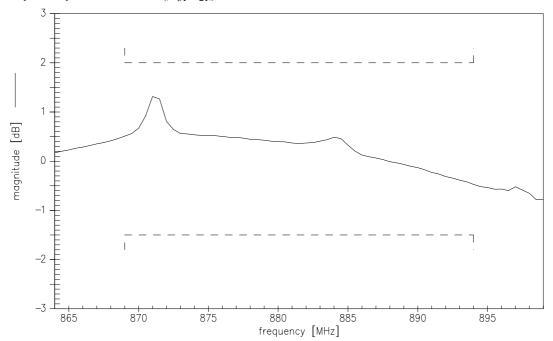


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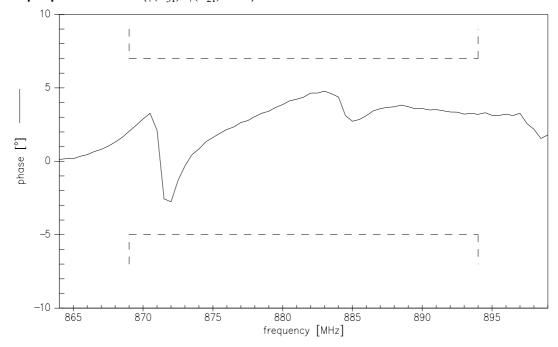
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Output amplitude balance ($|S_{31}/S_{21}|$)



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





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