

SAW Components

Data Sheet B7733





SAW Components		B7733
Low-Loss Filter for Mobile	Communication	881,5 MHz
Data Sheet	SMD	

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

Pin configuration

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



Dimensions in mm, approx. weight 0,014g

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 _{stg}	– 40 / + 85	°C	
DC voltage	V _{DC}	5	V	
Input power max.				
	$P_{\rm IN}$	0	dBm	source impedance 50 Ω
				CDMA signal



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SAW Components Low-Loss Filter for Mobile	Commun		n			004	B7733
	Commun					001	,5 MHz
Data Sheet							
Characteristics							
Operating temperature range: Terminating source impedance: Terminating load impedance:		Z_{S}	= 50 Ω	o +85 °C (unbalance Ω (balance			
		L		min.	typ.	max.	
Center frequency			f _C	—	881,5	_	MHz
Maximum insertion attenuatio 869,0	n 894,0	MHz	α_{max}	_	2,7	3,0	dB
Amplitude ripple (p-p) 869,0	894,0	MHz	Δα	_	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 (869,0	S ₃₁ /S ₂₁) 894,0	MHz		-1,5	_	2,0	dB
Output phase imbalance (\(S3 869,0	894,0			-5,0	_	7,0	degree
Attenuation	824,0	MHz	α	46,0	53,0		dB
	849,0	MHz		40,0 34,0	53,0 41,0	_	dB
	1000,0	MHz		25,0	30,0	—	dB
	2000,0 3000,0	MHz MHz		35,0 30,0	47,0 40,0	_	dB dB





Transfer function (wideband)



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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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