

SAW Components

Data Sheet B7833



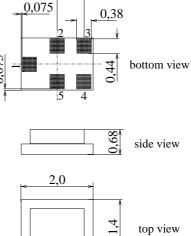


SAW Components	B7833
Low-Loss Filter for Mobile Communication	942,5 MHz
Data Sheet Seatures	Chip sized SAW package QCS5C
 Low-loss RF filter for mobile telephone EGSM system, receive path Usable passband 35 MHz Unbalanced operation 	$\begin{array}{c} 0.075 \\ 2 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3 \\ 3$

- Impedance 50 Ω input and output
- Ceramic Package for Surface Mounted Technology (SMT)

Terminals

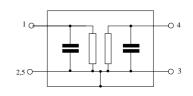
Ni, gold-plated



Dimensions in mm, approx. weight 0,007 g

Pin configuration

1	Input, unbalanced			
4	Output, unbalanced			
2, 3, 5	Case ground			
2, 3, 5	to be grounded			



Туре	Ordering code	Marking and Package	Packing
		according to	according to
B7833	B39941-B7833-C710	C61157-A7-A111	F61074-V8151-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Т	- 25 / + 85	°C	
Storage temperature range	T _{stg}	- 40 / + 85	°C	
DC voltage	V _{DC}	3	V	
ESD voltage	V_{ESD}^{*}	100*	V	machine model, 10 pulses
Input power at	P _{IN}	15	dBm	peak power of GSM signal,
GSM850, GSM900				duty cycle 4:8
GSM1800 and GSM1900				
Tx bands				

2

* acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses

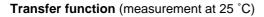


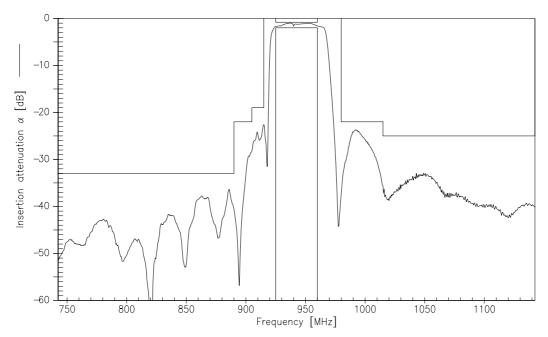
SAW Components							B7833
Low-Loss Filter for Mobile Communication					942	,5 MHz	
Data Sheet	1						
Characteristics							
Operating temperature:			= 25 ±				
Terminating source impedance: Terminating load impedance:			= 50 Ω = 50 Ω				
				min.	typ.	max.	
Center frequency			f _C	_	942,5		MHz
Maximum insertion attenuation			α _{max}				
925,0 96	60,0	MHz	Παλ	—	1,7	2,0	dB
Amplitude ripple (p-p)			Δα				
925,0 96	60,0	MHz		—	0,7	1,2	dB
Input VSWR							
925,0 96	60,0	MHz		—	1,8	2,1	
Output VSWR							
925,0 96	50,0	MHz		—	1,8	2,1	
Attenuation		N 41 1-	α	22	20		40
0,0 89	,	MHz		33 22	36		dB
890,0 90 905,0 91		MHz MHz		22 19	28 22		dB dB
980,0 91		MHz		19 22	22		dB
1015,0600		MHz		25	33	_	dB



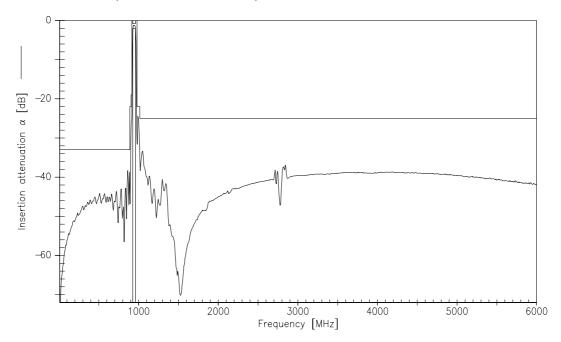
SAW Components						B7833
Low-Loss Filter for Mobile Communication					942	,5 MHz
Data Sheet						
Characteristics						
Operating temperature: $T = -25 \dots +85 \degree C$ Terminating source impedance: $Z_S = 50 \Omega$ Terminating load impedance: $Z_L = 50 \Omega$						
			min.	typ.	max.	
Center frequency		f _C		942,5		MHz
Maximum insertion attenuation 925,0 960,0	MHz	$lpha_{max}$	_	1,8	2,3	dB
Amplitude ripple (p-p) 925,0 960,0	MHz	Δα		0,9	1,5	dB
Input VSWR 925,0 960,0	MHz			1,8	2,1	
Output VSWR 925,0 960,0	MHz		_	1,8	2,1	
Attenuation	MHz	α	33	36		dB
0,0 890,0 890,0 905,0			22	25		dВ
905,0 915,0			19	23	_	dB
980,01015,0			22	24	_	dB
1015,06000,0			25	32	_	dB







Transfer function (wideband measurement)



5



SAW Components	B7833	
Low-Loss Filter for Mob	ile Communication	942,5 MHz
Data Sheet	SMD	

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