

# SAW Components

Data Sheet B7703





SAW Components		B7703
Low-Loss Filter for Mo	bile Communication	836,5 MHz
Data Sheet	SMD	
		Chip Sized SAW Package DCS4C

#### Features

- Low-loss RF filter for mobile telephone AMPS systems, transmit path
- Low amplitude ripple
- Usable passband 25 MHz
- Package for Surface Mounted Technology (SMT)

#### Terminals

Gold-plated Ni





Dimensions in mm, approx. weight 0,015 g

# **Pin configuration**

1	Input
3	Output
2, 4	Ground



Туре	Ordering code	Marking and Package according to	Packing according to
B7703	B39841-B7703-C510	C61157-A7-A80	F61074-V8104-Z000

Electrostatic Sensitive Device (ESD)

# **Maximum ratings**

Operating temperature range	Т	- 30/+ 85	°C	
Storage temperature range	T <sub>stg</sub>	- 40/+ 85	°C	
DC voltage	V <sub>DC</sub>	5	V	
ESD	$V_{\rm ESD}$	50	V	Human Body Model
Input Power max.	$P_{\rm IN}$	15	dBm	source impedance 50 $\Omega$

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Low-Loss Filter for Mobile Co	ommuni	cation	1			836,	5 MHz
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Characteristics							
Operating temperature range: Terminating source impedance: Terminating load impedance:			= -30 to = 50 Ω = 50 Ω				
				min.	typ.	max.	
Center frequency			f <sub>C</sub>	—	836,5	—	MHz
Maximum insertion attenuation			$\alpha_{max}$				
824,0	849,0	MHz		—	2,5	2,8	dB
Amplitude ripple (p-p)			Δα				
824,0	849,0	MHz		—	0,9	1,3	dB
Return loss							
824,0	849,0	MHz		—	12,0	10,0	dB
Attenuation			α				
	790,0	MHz		45,0	56,0	—	dB
790,0		MHz		30,0	35,0	—	dB
869,0	,	MHz		26,0	29,0	—	dB
894,0		MHz		30,0	40,0	—	dB
914,0	,	MHz		45,0	50,0	—	dB
2000,0	,	MHz		35,0	40,0	—	dB
	3500,0	MHz		30,0	35,0	—	dB
	4000,0	MHz		20,0	25,0	—	dB
4000,0	6000,0	MHz		10,0	18,0	—	dB
Rx band suppression			α				
	894,0	MHz		26,0	29,0	_	dB



### **Transfer function**



## Transfer function (wideband)



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**Reflection functions** 



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