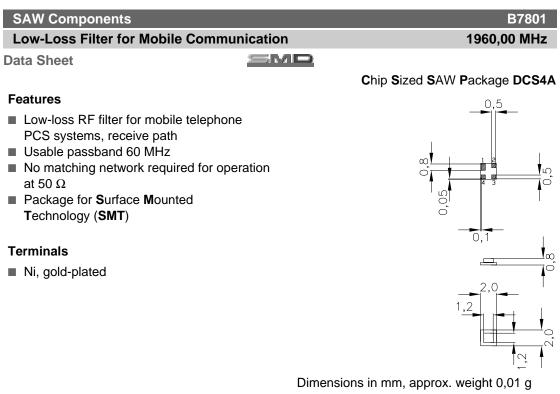


# SAW Components

Data Sheet B7801

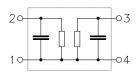






#### **Pin configuration**

2	Input
1	Input - ground
3	Output
4	Output - ground



Туре	Ordering code	Marking and Package according to	Packing according to
B7801	B39202-B7801-A510	C61157-A7-A63	F61074-V8154-Z000

Electrostatic Sensitive Device (ESD)

### **Maximum ratings**

Operable temperature range	Т	- 40/+ 85	°C	
Storage temperature range	T <sub>stg</sub>	- 40/+ 85	°C	
DC voltage	V <sub>DC</sub>	3	V	
Input power max.				source and load impedance 50 $\Omega$
	$P_{\rm IN}$	5	dBm	peak power of GSM signal,
				duty cycle 1:8
		0	dBm	CDMA signal



SAW Components							B7801		
Low-Loss Filter for Mobile Communication							1960,00 MHz		
Data Sheet			SM						
Characteristics									
Operating temperatu	ure range:		Т	= +25 +	2°C				
Terminating source	•	:		= 50 $\Omega$					
Terminating load imp	pedance:		$Z_{L}$	= 50 Ω					
				ĺ	min.	typ.	max.		
Center frequency				f <sub>c</sub>		1960,0		MHz	
Maximum insertion	attenuati	on		$\alpha_{max}$					
	1930,0	1990,0	MHz		—	3,1	3,7	dB	
Amplitude ripple (p	р-р)			Δα					
	1930,0	1990,0	MHz		—	1,2	1,8	dB	
Input VSWR									
	1930,0	1990,0	MHz		—	1,7	2,0		
Output VSWR									
	1930,0	1990,0	MHz		—	1,7	2,0		
Attenuation				α					
	10,0	1500,0	MHz		19,0	21,0	—	dB	
		1830,0	MHz		23,0	27,0		dB	
		1910,0	MHz		17,0	22,0		dB	
		2070,0	MHz		15,0	28,0		dB	
		2800,0	MHz		21,0	23,0		dB	
	3000,0	6000,0	MHz		16,0	18,0	—	dB	



SAW Components							B7801		
Low-Loss Filter for Mobile Communication							0 MHz		
Data Sheet		SM							
Characteristics									
Operating temperature range:			= -30 to	o +80° C					
Terminating source impedance	:		= 50 Ω						
Terminating load impedance:		$Z_{L}$	= 50 Ω						
				min.	typ.	max.			
Center frequency			f <sub>c</sub>	—	1960,0		MHz		
Maximum insertion attenuati	on		$\alpha_{max}$						
1930,0	1990,0	MHz		—	3,6	4,0	dB		
Amplitude ripple (p-p)			Δα						
1930,0	1990,0	MHz		—	1,8	2,2	dB		
Input VSWR									
1930,0	1990,0	MHz		—	1,7	2,0			
Output VSWR									
1930,0	1990,0	MHz		—	1,7	2,0			
Attenuation			α						
	1500,0	MHz		18,0	20,0	—	dB		
,	1830,0	MHz		23,0	27,0	—	dB		
,	1910,0	MHz		10,0	19,0	—	dB		
	2070,0	MHz		15,0	28,0	—	dB		
,	2800,0	MHz		21,0	23,0	—	dB		
3000,0	6000,0	MHz		16,0	18,0	—	dB		

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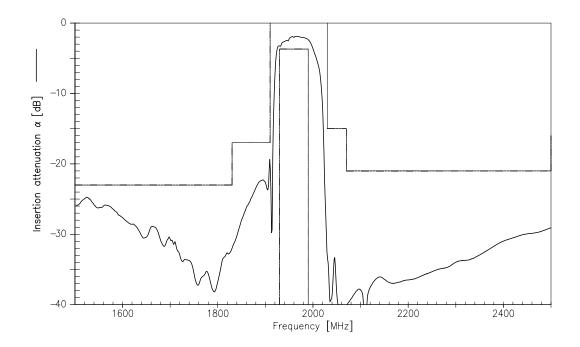


SAW Components						B7801
Low-Loss Filter for Mobile Communication						0 MHz
Data Sheet	SN					
Characteristics						
Operating temperature range: Terminating source impedance: Terminating load impedance:	Zs	= -30 to = 50 Ω = 50 Ω				
			min.	typ.	max.	
Center frequency		f <sub>c</sub>	—	1960,0		MHz
Maximum insertion attenuation 1930,01990,0	MHz	$\alpha_{max}$	_	3,6	4,0	dB
<b>Amplitude ripple</b> (p-p) 1930,01990,0	MHz	Δα	_	1,8	2,2	dB
Input VSWR 1930,01990,0	MHz		_	1,7	2,0	
Output VSWR 1930,01990,0	MHz		_	1,7	2,0	
Attenuation		α				
10,01500,0	MHz		18,0	20,0		dB
1500,01830,0 1830,01910,0	MHz MHz		23,0 9,0	27,0 19,0		dB dB
2030,02070,0	MHz		9,0 15,0	28,0		dB
2070,02800,0	MHz		21,0	23,0		dB
3000,06000,0	MHz		16,0	18,0	_	dB
3000,06000,0	MHz		16,0	18,0		dB

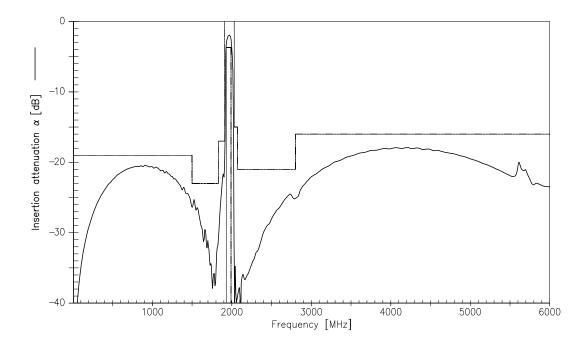




Transfer Function(25°C spec)



## Transfer function (wideband)

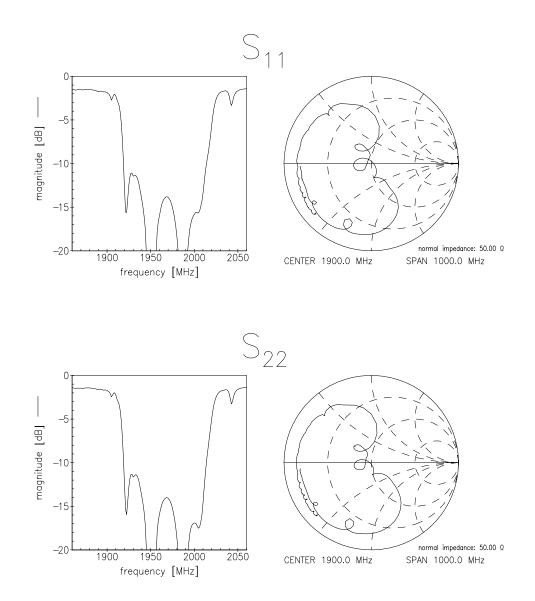


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May 07, 2002



**Reflection functions** 





SAW Components	B7801	
Low-Loss Filter for Mobile Comn	nunication	1960,00 MHz
Data Sheet	SMD	

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