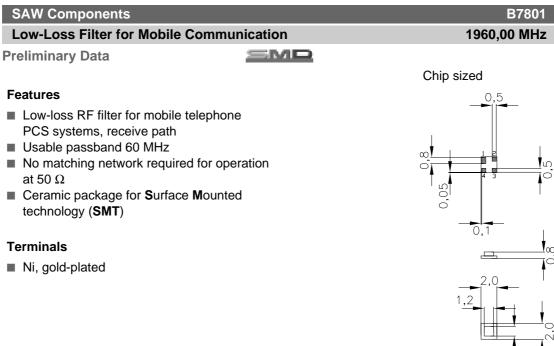


# SAW Components

Preliminary Data B7801



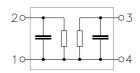




Dimensions in mm, approx. weight 0,01 g

#### **Pin configuration**

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



V

Туре	Ordering code	Marking and Package	Packing		
		according to	according to		
B7801		C61157-A7-A63	F61074-V8099-Z000		

Electrostatic Sensitive Device (ESD)

### **Maximum ratings**

Operable temperature range	Т	- 30/+ 80	°C	
Storage temperature range	T <sub>stg</sub>	- 40/+ 85	°C	
DC voltage	$V_{\rm DC}$	0	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



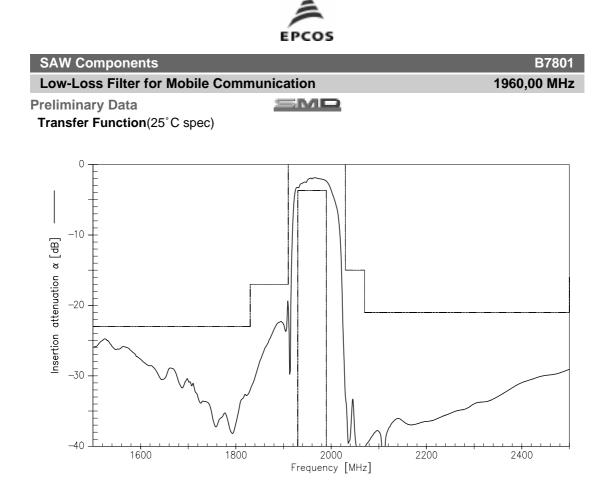
Jul 06, 2000



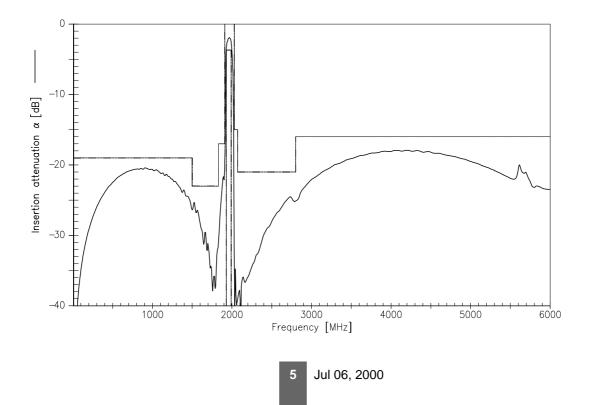
					B7801
icatior	1			1960,0	0 MHz
SM					
		2°C			
$Z_{L}$	= 50 Ω				
		min.	typ.	max.	
	f <sub>c</sub>		1960,0		MHz
	$\alpha_{max}$				
MHz		_	3,1	3,7	dB
	Δα				
MHz		—	1,2	1,8	dB
MHz		—	1,7	2,0	
MHz			1,7	2,0	
	α				
				—	dB
				—	dB
				—	dB
				—	dB
				—	dB
MHz		16,0	18,0	—	dB
	T Z <sub>S</sub> Z <sub>L</sub>	$ \begin{array}{c} Z_{S} \\ Z_{L} \\ = 50 \Omega \\ \end{array} $ $ \begin{array}{c} f_{C} \\ \alpha_{max} \\ \end{array} $ $ \begin{array}{c} MHz \\ MHz \\$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	ication       1960,0         T $= +25 + 2^{\circ}C$ Z_S $= 50 \Omega$ Z_L $= 50 \Omega$ min.       typ.       max.         f_c       —       1960,0       —         MHz $\alpha_{max}$ —       1960,0       —         MHz $\Delta \alpha$ —       1960,0       —         MHz $\Delta \alpha$ —       1960,0       —         MHz $\Omega_{max}$ —       1960,0       —         MHz $\Omega_{max}$ —       1960,0       —         MHz $\Omega_{max}$ —       3,1       3,7         MHz $\Omega_{max}$ —       1,2       1,8         MHz       —       1,7       2,0       —         MHz $\Omega_{max}$ —       1,7       2,0         MHz       19,0       21,0       —       —         MHz       19,0       21,0       —       —         MHz       15,0       28,0       —       —         MHz       15,0       23,0       —       —         MHz       15,0       23,0       —       —



SAW Components					B7801
Low-Loss Filter for Mobile Communication				1960,0	0 MHz
Preliminary Data	SMD				
Characteristics					
Operating temperature range:		to +80°C			
Terminating source impedance:	$Z_{\rm S} = 50$				
Terminating load impedance:	$Z_{\rm L} = 50$	Ω			
		min.	typ.	max.	
Center frequency	f <sub>c</sub>	_	1960,0		MHz
Maximum insertion attenuation	$\alpha_{max}$				
1930,01990,0	MHz	_	3,6	4,0	dB
Amplitude ripple (p-p)	Δα				
1930,01990,0	MHz	_	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	MHz	23,0	27,0	—	dB
1830,01910,0	MHz	10,0	19,0	_	dB
2030,02070,0	MHz	15,0	28,0	-	dB
2070,02800,0	MHz	21,0	23,0	-	dB
3000,06000,0	MHz	16,0	18,0	-	dB



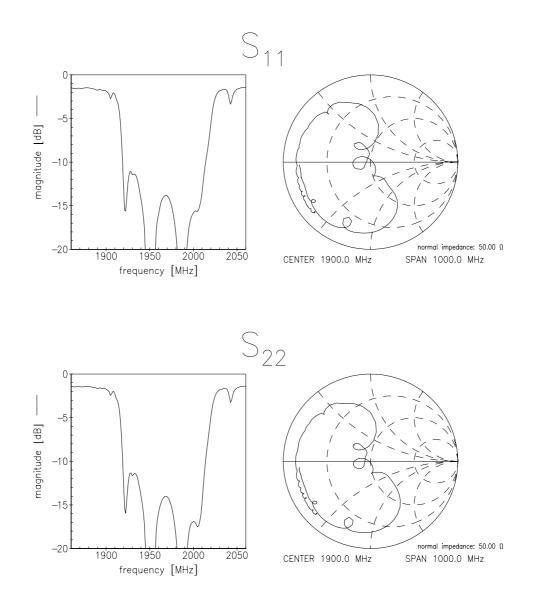
## Transfer function (wideband)





SAW Components		B7801
Low-Loss Filter for Mobile	Communication	1960,00 MHz
Preliminary Data	SMD	

**Reflection functions** 



6



SAW Components		B7801
Low-Loss Filter for Mot	bile Communication	1960,00 MHz
Preliminary Data	SMD	

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