

Data Sheet B7806





B7806

## **Low-Loss Filter for Mobile Communication**

1765,00 MHz

**Data Sheet** 

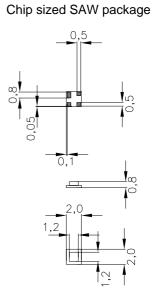


#### **Features**

- Low-loss RF filter for mobile telephone Korean PCS systems, transmit path
- Usable passband 30 MHz
- $\blacksquare$  No matching network required for operation at 50  $\Omega$
- Ceramic package for Surface Mounted technology (SMT)

#### **Terminals**

■ Ni, gold-plated



Dimensions in mm, approx. weight 0,01 g

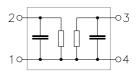
## Pin configuration

2 Input

1 Input - ground

3 Output

4 Output - ground



Туре	Ordering code	Marking and Package	Packing		
		according to	according to		
B7806	B39182-B7806-A510	C61157-A7-A63	F61074-V8099-Z000		

Electrostatic Sensitive Device (ESD)

#### **Maximum ratings**

Operable temperature range	T	- 30/+ 85	°C	
Storage temperature range	$T_{stg}$	<b>- 40/+ 85</b>	°C	
DC voltage	$V_{\rm DC}$	0	V	
Input power max.	$P_{\text{INI}}$	10	dBm	CDMA signal



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#### **Characteristics**

T = +25 +- 2°C  $Z_S$  = 50  $\Omega$   $Z_L$  = 50  $\Omega$ Operating temperature range: Terminating source impedance: Terminating load impedance:

		min.	typ.	max.	
Center frequency	f <sub>C</sub>	_	1765,0	_	MHz
Maximum insertion attenuation 1750,01780,0 MH	$lpha_{ extsf{max}}$ z	_	2,7	3,0	dB
<b>Amplitude ripple</b> (p-p) 1750,01780,0 MH	$\Delta lpha$	_	0,8	1,0	dB
<b>VSWR</b> 1750,01780,0 MH	z	_	1,9	2,0	
Attenuation  1350,01380,0 MH 1660,01690,0 MH 1840,01870,0 MH 2150,02180,0 MH	z z (Rx)	26,0 22,0 30,0 27,0	28,0 23,0 34,0 29,0	_ _ _ _	dB dB dB dB



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#### **Characteristics**

Operating temperature range:

 $T = -30 \text{ to } +85^{\circ}\text{C}$   $Z_{\text{S}} = 50 \Omega$   $Z_{\text{L}} = 50 \Omega$ Terminating source impedance: Terminating load impedance:

			min.	typ.	max.	
Center frequency		f <sub>C</sub>	_	1765,0	_	MHz
Maximum insertion attenuation 1750,017	80,0 MHz	$\alpha_{\text{max}}$	_	2,7	3,1	dB
<b>Amplitude ripple</b> (p-p) 1750,017	80,0 MHz	Δα	_	0,8	1,1	dB
VSWR 1750,017	80,0 MHz		_	1,9	2,1	
Attenuation  1350,013 1660,016 1840,018 2150,021	70,0 MHz	(Rx)	26,0 22,0 30,0 27,0	28,0 23,0 34,0 29,0	_ _ _ _	dB dB dB dB

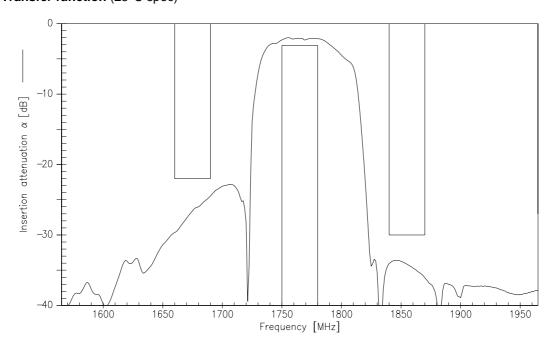


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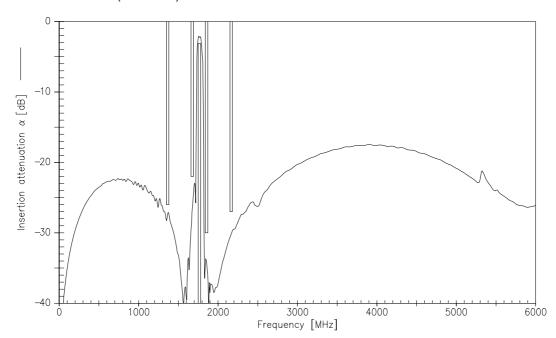
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# Transfer function (25°C spec)



## Transfer function (wideband)





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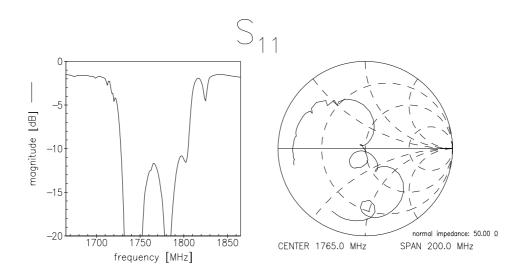
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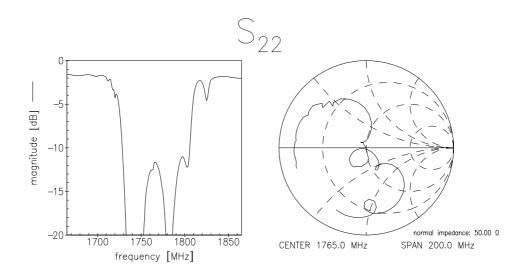
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#### **Reflection functions**







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B7806

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