

Data Sheet B7801





B7801

Low-Loss Filter for Mobile Communication

1960,00 MHz

Data Sheet



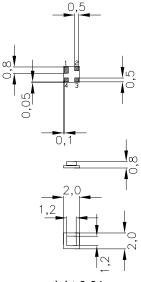
Chip Sized SAW Package DCS4A

Features

- Low-loss RF filter for mobile telephone PCS systems, receive path
- Usable passband 60 MHz
- \blacksquare No matching network required for operation at 50 Ω
- Package for Surface Mounted Technology (SMT)

Terminals

■ Ni, gold-plated



Dimensions in mm, approx. weight 0,01 g

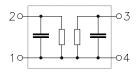
Pin configuration

2 Input

1 Input - ground

3 Output

4 Output - ground



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

Electrostatic Sensitive Device (ESD)

Maximum ratings

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



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Characteristics

Operating temperature range: $T = +25 + 2^{\circ} \text{C}$ Terminating source impedance: $Z_{\text{S}} = 50 \ \Omega$ Terminating load impedance: $Z_{\text{L}} = 50 \ \Omega$

				min.	typ.	max.	
Center frequency			f _C	_	1960,0	_	MHz
Maximum insertion attenuation			α_{max}				
1930,0	1990,0	MHz			3,1	3,7	dB
Amplitude ripple (p-p)			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
1500,0	1830,0	MHz		23,0	27,0		dB
1830,0	1910,0	MHz		17,0	22,0	_	dB
2030,0	2070,0	MHz		15,0	28,0	_	dB
2070,0	2800,0	MHz		21,0	23,0	_	dB
3000,0	6000,0	MHz		16,0	18,0	_	dB



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Characteristics

Operating temperature range: $T = -30 \text{ to } +80^{\circ}\text{C}$

Terminating source impedance: $Z_{\rm S} = 50~\Omega$ Terminating load impedance: $Z_{\rm L} = 50~\Omega$

				min.	typ.	max.	
Center frequency			f _C	_	1960,0	_	MHz
Maximum insertion attenuation o			α_{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				
10,0	1500,0	MHz		18,0	20,0		dB
1500,0	1830,0	MHz		23,0	27,0		dB
1830,0	1910,0	MHz		10,0	19,0	_	dB
2030,0	2070,0	MHz		15,0	28,0	_	dB
2070,0	2800,0	MHz		21,0	23,0	_	dB
3000,0	6000,0	MHz		16,0	18,0	_	dB



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Characteristics

Operating temperature range: $T = -30 \text{ to } +85^{\circ}\text{C}$

Terminating source impedance: $Z_{\rm S} = 50~\Omega$ Terminating load impedance: $Z_{\rm L} = 50~\Omega$

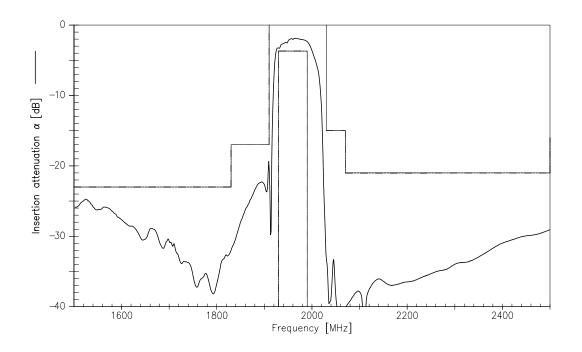
				min.	typ.	max.	
Center frequency			f _C	_	1960,0	_	MHz
Maximum insertion attenuation			α_{max}				
1930,0	1990,0	MHz		_	3,6	4,0	dB
Amplitude ripple (p-p)			Δα				
1930,0	1990,0	MHz		_	1,8	2,2	dB
Input VSWR							
1930,0	1990,0	MHz		_	1,7	2,0	
Output VSWR							
1930,0	1990,0	MHz		_	1,7	2,0	
Attenuation			α				
10,0	1500,0	MHz		18,0	20,0	_	dB
1500,0	1830,0	MHz		23,0	27,0	_	dB
1830,0	1910,0	MHz		9,0	19,0	_	dB
2030,0	2070,0	MHz		15,0	28,0	_	dB
2070,0	2800,0	MHz		21,0	23,0	_	dB
3000,0	6000,0	MHz		16,0	18,0	_	dB



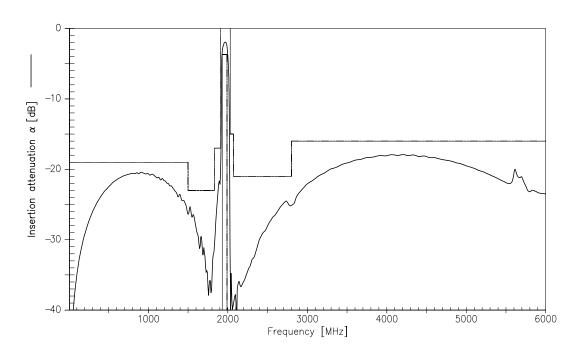
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Transfer Function(25°C spec)



Transfer function (wideband)



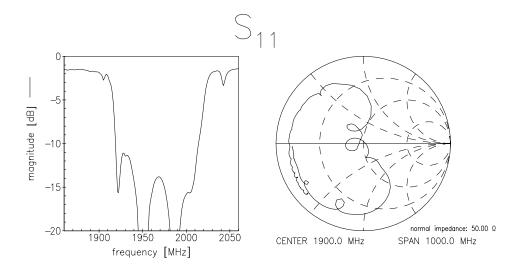


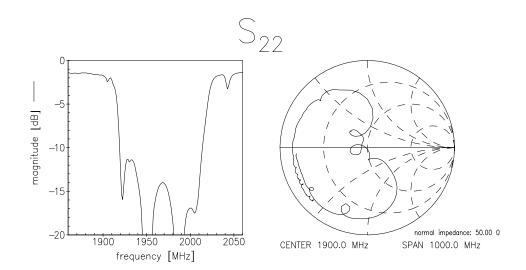
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Reflection functions







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