

# **Excellent Integrated System Limited**

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Data Sheet B7803







B7803

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

1950,0 MHz

**Data Sheet** 



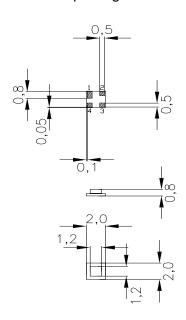
#### Chip sized SAW package DCS4A

#### **Features**

- Low-loss RF filter for W-CDMA system, transmit path
- Usable passband 60 MHz
- 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 0,019 g

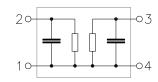
#### Pin configuration

2	Input
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1 Input - ground

3 Output

4 Output - ground



Туре	Ordering code	Marking and Package	Packing		
		according to	according to		
B7803	B39202-B7803-A510	C61157-A7-A63	F61074-V8099-Z000		

Electrostatic Sensitive Device (ESD)

# **Maximum ratings**

Operable temperature range	T	<b>– 20/+ 85</b>	°C.	
operable temperature range	,	20/1.00	0	
Storage temperature range	T	<b>- 40/+ 85</b>	°C	
Sidiage temperature range	' stg	T 40/+ 65		
DC voltage	17		\/	
DC voltage	$v_{\rm DC}$	0	V	
Carres marray	ר <u>-</u>	40	al Duna	and the second s
Source power	$P_{\rm s}$	10	dBm	source impedance 50 $\Omega$





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**Data Sheet** 

=MD

**Characteristics** 

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

				min.	typ.	max.	
Center frequency			f <sub>C</sub>	_	1950,0	_	MHz
Maximum insertion attenuatio	n		$\alpha_{max}$				
1920,0	1980,0	MHz	max	_	2,3	2,5	dB
Amplitude ripple (p-p)			$\Delta \alpha$				
1920,0	1980,0	MHz			0,5	0,7	dB
Amplitude ripple (p-p) per 5-M	Hz channe	el	$\Delta lpha_{ch}$				
1920,0	1980,0	MHz		_	0,2	0,4	dB
Input VSWR							
1920,0	1980,0	MHz		_	1,8	2,0	
Output VSWR							
1920,0	1980,0	MHz		_	1,8	2,0	
Attenuation			α				
50,0	1805,0	MHz		17,0	18,0	_	dB
1805,0	1880,0	MHz		17,0	20,0	_	dB
2110,0	2170,0	MHz		31,0	35,0		dB
2170,0	2500,0	MHz		25,0	27,0		dB
2500,0	2800,0	MHz		20,0	23,0	_	dB
2800,0	6000,0	MHz		12,0	15,0	_	dB





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**Data Sheet** 

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**Characteristics** 

Operating temperature range:  $T = -20 \text{ to } +85^{\circ}\text{C}$ 

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

			min.	typ.	max.	
Center frequency		f <sub>C</sub>		1950,0		MHz
Maximum insertion attenuation		$\alpha_{\sf max}$				
1920,01980	),0 MHz	max	_	2,5	2,8	dB
Amplitude ripple (p-p)		Δα				
1920,01980	),0 MHz		_	0,7	1,0	dB
Amplitude ripple (p-p) per 5-MHz channel		$\Deltalpha_{\sf ch}$				
1920,01980	),0 MHz		_	0,4	0,5	dB
Input VSWR						
1920,01980	),0 MHz		_	1,8	2,0	
Output VSWR						
1920,01980	),0 MHz		_	1,8	2,0	
Attenuation		α				
50,01805	5,0 MHz		17,0	18,0		dB
1805,01880	),0 MHz		17,0	20,0	_	dB
2110,02170	),0 MHz		31,0	35,0	_	dB
2170,02500	),0 MHz		25,0	27,0	_	dB
2500,02800	),0 MHz		20,0	23,0	_	dB
2800,06000	),0 MHz		12,0	15,0	_	dB



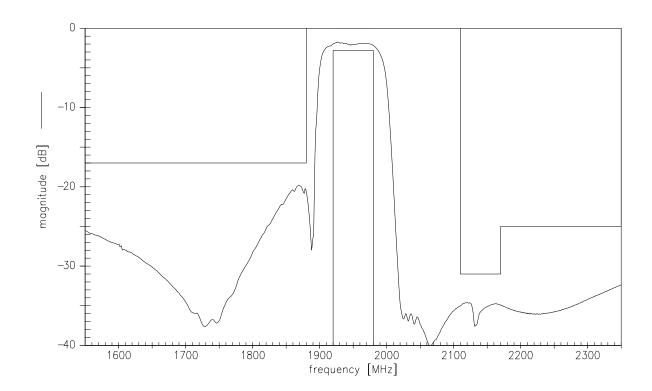


**Low Loss Filter for Mobile Communication** 

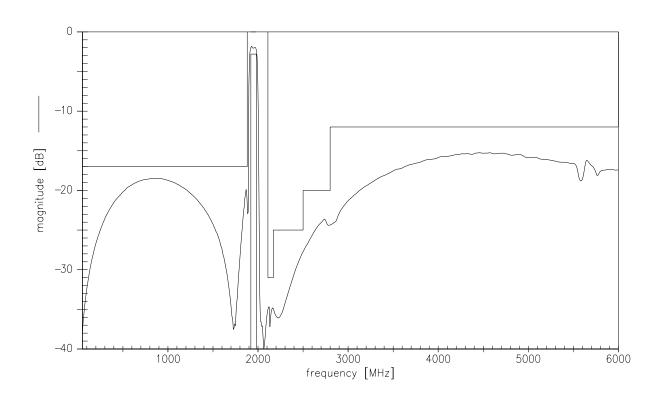
1950,0 MHz

Data Sheet





#### Frequency response (broad band)







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