

SAW Components

Data Sheet B7803





SAW Components		B7803
Low Loss Filter for Mol	oile Communication	1950,0 MHz
Data Sheet	SMD	
		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 Ω
- Ceramic package for Surface Mounted technology (SMT)

Terminals

• Ni, gold-plated



Dimensions in mm, approx. weight 0,019 g

Pin configuration

2	Input
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	Т	- 20/+ 85	°C	
Storage temperature range	T _{stg}	- 40/+ 85	°C	
DC voltage	V _{DC}	0	V	
Source power	Ps	10	dBm	source impedance 50 Ω



SAW Componen				B7803				
Low Loss Filter	for Mobile			1950,	0 MHz			
Data Sheet Characteristics			SM					
Operating temperat Terminating source Terminating load in	impedance			= 25°C = 50 Ω = 50 Ω				
					min.	typ.	max.	
Center frequency				f _c		1950,0		MHz
Maximum insertio	n attenuati	on		α_{max}				
	1920,0	1980,0	MHz		—	2,3	2,5	dB
Amplitude ripple (/			Δα				
	1920,0	1980,0	MHz		—	0,5	0,7	dB
Amplitude ripple ($\Delta\alpha_{\text{ch}}$			/	
	1920,0	1980,0	MHz		—	0,2	0,4	dB
Input VSWR	1020.0	1000 0	MHz			4.0	2.0	
	1920,0	1980,0	IVI⊓Z		_	1,8	2,0	
Output VSWR	1020.0	1980,0	MHz			1,8	2,0	
	1920,0	1900,0			—	1,0	2,0	
Attenuation	50.0	4005.0		α	47.0	40.0		
	-	1805,0 1880,0	MHz MHz		17,0 17,0	18,0 20,0		dB dB
	-	2170,0			31,0	20,0 35,0		dВ
	-	2500,0	MHz		25,0	27,0		dB
	2500,0	-			23,0 20,0	27,0		dB
	-	6000,0	MHz		12,0	15,0		dB



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Low Loss Filter			1950	,0 MHz				
Data Sheet			<u>sr</u>					
Characteristics								
Operating temperatu Terminating source Terminating load imp	impedance	:	T Z _S Z _L	= 50 Ω) +85°C			
					min.	typ.	max.	
Center frequency				f _c	—	1950,0	—	MHz
Maximum insertion		on 1980,0	MHz	α_{max}	_	2,5	2,8	dB
Amplitude ripple (p		1980,0	MHz	Δα	_	0,7	1,0	dB
Amplitude ripple (p	• / •	/Hz chann 1980,0	el MHz	$\Delta lpha_{ch}$	_	0,4	0,5	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				
	-	1805,0	MHz		17,0	18,0		dB
	1805,0	1880,0	MHz		17,0	20,0		dB
	2110,0 2170,0	2170,0	MHz		31,0 25.0	35,0 27.0		dB
	2170,0	2500,0 2800,0	MHz MHz		25,0 20,0	27,0 23,0		dB dB
	2300,0 2800,0	6000,0	MHz		20,0 12,0	23,0 15,0		dB





Frequency response (narrow band)



Frequency response (broad band)



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