

Data Sheet B7704





B7704

Low-Loss Filter for Mobile Communication

881,5 MHz

Data Sheet



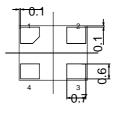
Chip Sized SAW Package DCS4C

Features

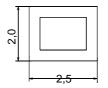
- Low-loss RF filter for mobile telephone Cell systems, receive path
- Low amplitude ripple
- Usable passband 25 MHz
- Suitable for GPRS class 1 to12
- Package for Surface Mounted Technology (SMT)

Terminals

■ Gold-plated Ni



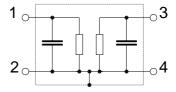




Dimensions in mm, approx. weight 0,015 g

Pin configuration

1	Input
3	Output
2 4	Ground



Туре	Ordering code	Marking and Package according to	Packing according to
B7704	B39881-B7704-C510	C61157-A7-A80	F61074-V8104-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operating temperature range	T	- 30/+ 85	°C	
Storage temperature range	$T_{\rm stg}$	- 40/+ 85	°C	
DC voltage	$V_{\rm DC}$	5	V	
Input power at	P_{IN}	15	dBm	peak power of GSM signal,
GSM850, GSM900,				duty cycle 4:8
GSM1800 and GSM1900				
Tx bands				



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Characteristics

Operating temperature range:

 $T = -20 \text{ to } +80 \,^{\circ}\text{C}$ $Z_{\text{S}} = 50 \,\Omega$ $Z_{\text{L}} = 50 \,\Omega$ Terminating source impedance: Terminating load impedance:

			min.	typ.	max.	
Center frequency		$f_{\mathbb{C}}$	_	881,5	_	MHz
Maximum insertion attenuation		α_{max}				
869,0 894	1,0 MHz		_	2,4	2,6	dB
Amplitude ripple (p-p)		Δα				
869,0 894	1,0 MHz			0,8	1,0	dB
Return loss						
869,0 894	1,0 MHz		_	12,0	10,0	dB
Attenuation		α				
0,0 780),0 MHz		45,0	62,0	_	dB
780,0 840),0 MHz		45,0	55,0	_	dB
840,0 851	ı,0 MHz		38,0	40,0	_	dB
914,0 924	1,0 MHz		24,0	26,0	_	dB
924,0 950),0 MHz		35,0	40,0	_	dB
950,0 997	,0 MHz		35,0	50,0	_	dB
997,02200),0 MHz		40,0	50,0	_	dB
2200,03000),0 MHz		35,0	42,0	_	dB
3000,04000),0 MHz		20,0	28,0	_	dB
4000,06000),0 MHz		10,0	18,0	_	dB
Tx band suppression		α				
824,0 849	9,0 MHz		38,0	40,0	_	dB



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Operating temperature range: T = -30 to +85 °C

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

				min.	typ.	max.	
Center frequency			$f_{\mathbb{C}}$	_	881,5	_	MHz
Maximum insertion attenuat	ion		α_{max}				
	894,0	MHz	IIIax		2,5	2,7	dB
Amplitude ripple (p-p)			Δα				
,, , ,	894,0	MHz		_	0,9	1,1	dB
Return loss							
	894,0	MHz		_	12,0	10,0	dB
Attenuation			α				
0,0	780,0	MHz	•	45,0	62,0	_	dB
•	840,0	MHz		45,0	55,0	_	dB
•	851,0	MHz		38,0	40,0	_	dB
914,0	924,0	MHz		24,0	26,0	_	dB
924,0	950,0	MHz		35,0	40,0	_	dB
950,0	997,0	MHz		35,0	50,0	_	dB
997,0	2200,0	MHz		40,0	50,0	_	dB
2200,0	3000,0	MHz		35,0	42,0	_	dB
3000,0	4000,0	MHz		20,0	28,0	_	dB
4000,0	6000,0	MHz		10,0	18,0	<u> </u>	dB
Tx band suppression			α				
• •	849,0	MHz		38,0	40,0	_	dB



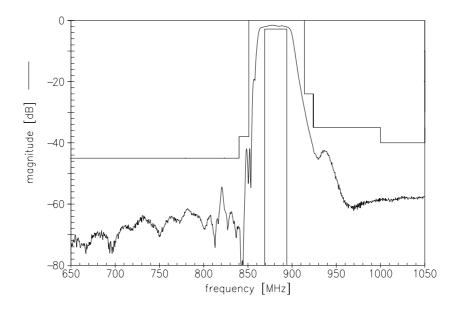
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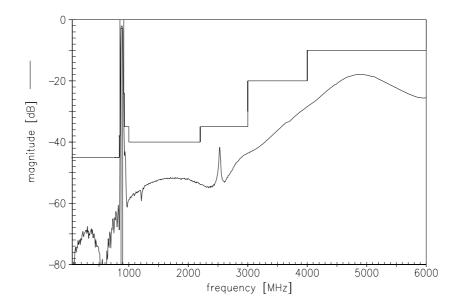
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Transfer function



Transfer function (wideband)





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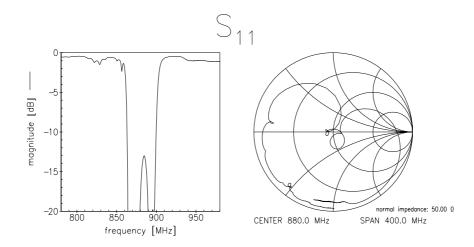
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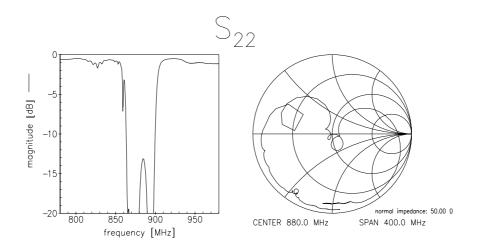
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Reflection functions







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