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SAW Components

Data Sheet B7701

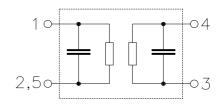




SAW Components	B7701	
Low-Loss Filter for Mobile Commu	inication 881,5 MHz	
Data Sheet	SMD	
Features	Chip Sized SAW Package QCS5A	
 Low-loss RF filter for mobile telephone AMPS system, receive path Low amplitude ripple Usable passband 25 MHz Unbalanced to balanced operation Impedance transformation from 50 Ω to 200 Ω Suitable for GPRS class 1 to 12 Package for Surface Mounted Technology (SMT) 		0,0
Terminals ● Ni, gold-plated	Dimensions in mm, approx. weight 0,015	

Pin configuration

1	Input
3, 4	Balanced output
2, 5	Ground, to be grounded



Туре	Ordering code	Marking and Package according to	Packing according to
B7701	B39881-B7701-B610	C61157-A7-A71	F61074-V8104-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Т	- 40 / + 85	°C	
Storage temperature range	T _{stg}	- 40 / + 85	°C	
DC voltage	V _{DC}	5	V	
Input power at	PIN	15	dBm	peak power of GSM signal,
GSM850, GSM900,				duty cycle 4:8
GSM1800 and GSM1900				
Tx bands				



SAW Components						B7701
Low-Loss Filter for Mobile Communication					881	,5 MHz
Data Sheet		<u>4D</u>				
Characteristics						
Operating temperature range:	Т	= +25 °	C			
Terminating source impedance:		= 50 Ω				
Terminating load impedance:	Z_{L}	= 200 9	Ω			
			min.	typ.	max.	
Center frequency		f _C	—	881,5	—	MHz
Maximum insertion attenuation		α_{max}				
869,0 894,0	MHz	•max	_	2,3	2,6	dB
, ,-				<i>,</i> –	, -	
Amplitude ripple (p-p)		Δα				
869,0 894,0	MHz		—	0,6	1,0	dB
VSWR						
869,0 894,0	MHz		—	1,8	2,0	
Output phase balance $(\phi(S_{31})-\phi(S_{32})+18)$	0°)					
869,0 894,0			-10,0	0	10,0	degree
Output amplitude balance (S ₃₁ /S ₃₂)						
869,0 894,0	MHz		-1,0	0	1,0	dB
Attenuation		α				
0,0 824,0	MHz		50,0	60,0		dB
824,0 849,0	MHz		35,0	40,0	_	dB
914,0 924,0	MHz		25,0	28,0	—	dB
924,0 970,0	MHz		30,0	36,0	—	dB
970,03000,0	MHz		50,0	70,0	—	dB
3000,06000,0	MHz		45,0	60,0	—	dB
Ty hand augurantic a						
Tx band suppression 824,0 849,0	MHz	α	35,0	40.0		dB
oz4,0 849,0	IVITIZ		35,0	40,0		uв

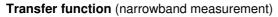


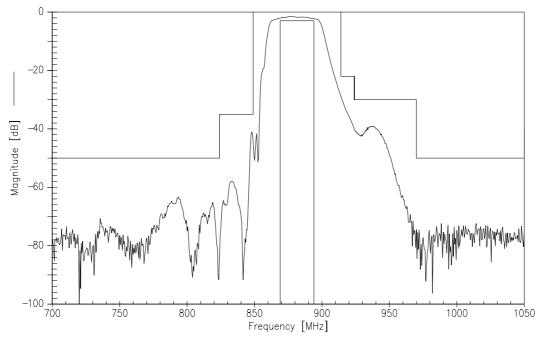
SAW Components					B7701
Low-Loss Filter for Mobile Communication					,5 MHz
Data Sheet		2			
Characteristics					
Operating temperature range: Terminating source impedance: Terminating load impedance:	T = - Z _S = 5 Z _L = 2				
		min.	typ.	max.	
Center frequency	f _C	_	881,5		MHz
Maximum insertion attenuation 869,0 894,0	α _r MHz	max	2,6	3,0	dB
			2,0	5,0	
Amplitude ripple (p-p) 869,0 894,0	Δα MHz	x	1,0	1,4	dB
VSWR					
869,0 894,0	MHz	_	1,8	2,0	
Output phase balance $(\phi(S_{31})-\phi(S_{32})+180)$ 869,0 894,0		-10,0	0	10,0	degree
		-10,0	0	10,0	uegree
Output amplitude balance (S ₃₁ /S ₃₂) 869,0 894,0	MHz	-1,0	0	1,0	dB
Attenuation	α				
0,0 824,0	MHz	50,0	60,0		dB
824,0 849,0	MHz	35,0	40,0	_	dB
914,0 924,0	MHz	22,0	26,0	_	dB
924,0 970,0	MHz	30,0	36,0		dB
970,03000,0	MHz	50,0	70,0	_	dB
3000,06000,0	MHz	45,0	60,0		dB
Tx band suppression	α				
824,0 849,0	MHz	35,0	40,0		dB

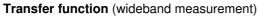


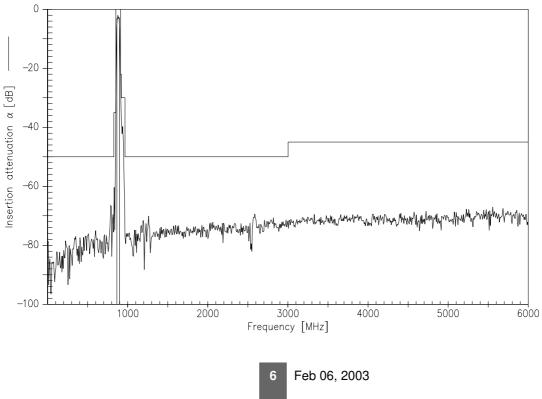
SAW Components						B7701
Low-Loss Filter for Mobile Communication					881	,5 MHz
Data Sheet						
Characteristics						
Operating temperature range: Terminating source impedance: Terminating load impedance:		= -40 to = 50 Ω = 200 Ω				
			min.	typ.	max.	
Center frequency		f _C	_	881,5		MHz
Maximum insertion attenuation 869,0 894,0	MHz	α_{max}	_	2,6	3,1	dB
Amplitude ripple (p-p) 869,0 894,0	MHz	Δα	_	1,0	1,5	dB
VSWR 869,0 894,0	MHz		_	1,8	2,2	
Output phase balance (φ(S ₃₁)-φ(S ₃₂)+18 869,0 894,0	0°) MHz		-10,0	0	10,0	degree
Output amplitude balance (S ₃₁ /S ₃₂) 869,0 894,0	MHz		-1,0	0	1,0	dB
Attenuation		α				
0,0 824,0 824,0 849,0 914,0 924,0 924,0 970,0 970,03000,0 3000,06000,0			50,0 35,0 22,0 30,0 50,0 45,0	60,0 40,0 26,0 36,0 70,0 60,0	 	dB dB dB dB dB dB
Tx band suppression 824,0 849,0	MHz	α	35,0	40,0	_	dB







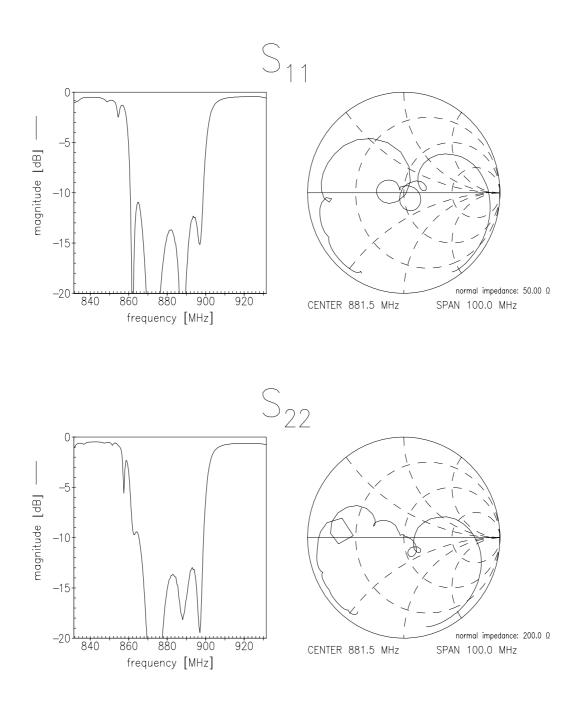






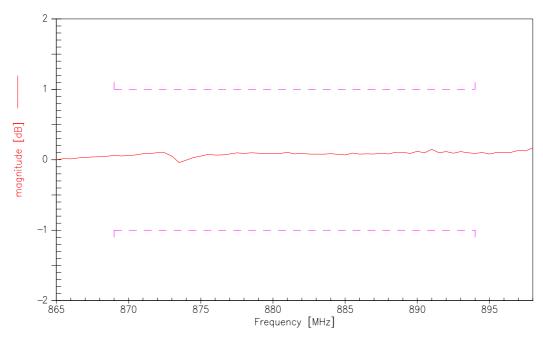
SAW Components	B7701	
Low-Loss Filter for Mo	bile Communication	881,5 MHz
Data Sheet	SMD	

Reflection functions (measurement)

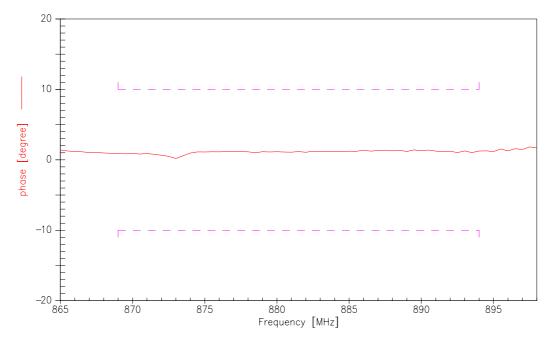




Output amplitude balance ($|S_{31}/S_{21}|$; measurement)



Output phase balance $(\phi(S_{31})-\phi(S_{21})+180^{\circ}; measurement)$



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SAW Components	B7701	
Low-Loss Filter for Mol	bile Communication	881,5 MHz
Data Sheet	SMD	

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