查询B39881-B7719-C610供应商

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SAW Components

EPCOS

Data Sheet B7719

Data Sheel

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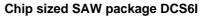
SAW Components	B7719
Low-Loss Filter for Mobile Communication	881,5 MHz

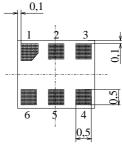
Data Sheet

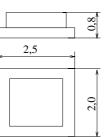
SMD

Features

- Low-loss RF filter for mobile telephone GSM850 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
- Ceramic package for Surface Mounted Technology (SMT)







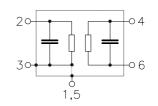
Dimensions in mm, approx. weight 0,014g

Pin configuration

Ni, gold-plated

Terminals

2	Unbalanced input
4, 6	Balanced output
1, 3, 5	To be grounded



Туре	Ordering code	Marking and Package according to	Packing according to
B7719	B39881-B7719-C610	C61157-A7-A76	F61074-V8112-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Т	- 30 / + 85	°C	
Storage temperature range	T _{stg}	– 40 / + 85	°C	
DC voltage	V _{DC}	5	V	
ESD	V _{ESD}	50	V	
Input power at	P _{IN}	15	dBm	peak power of GSM signal,
GSM850, GSM900, GSM1800 and GSM1900				duty cycle 4:8
Tx bands				



SAW Components						B7719
Low-Loss Filter for Mobile Communication 881,5 MHz					,5 MHz	
Data Sheet Characteristics						
Operating temperature range: Terminating source impedance: Terminating load impedance:	Z_{S}		2 °C Ω (unbalanc Ω (balance			
			min.	typ.	max.	
Center frequency		f _C	—	881,5	_	MHz
Maximum insertion attenuation 869,0 894,0	MHz	α_{max}	_	2,6	2,8	dB
Amplitude ripple (p-p) 869,0 894,0	MHz	Δα	_	1,0	1,2	dB
Unbalanced input VSWR 869,0 894,0	MHz		_	1,6	2,0	
Balanced output VSWR 869,0 894,0	MHz		_	1,7	2,0	
Output phase balance $(\phi(S_{31})-\phi(S_{21})+180)$ 869,0 894,0			-10	_	+10	degree
Output amplitude balance (S ₃₁ /S ₂₁) 869,0 894,0	MHz		-2,0	_	2,0	dB
Common mode Suppression 849,0 869,0 849,0 914,0 6000,0 1000,0 1000,0 100	MHz MHz MHz	S _{sc12}	20 20 20	45 25 30		
Attenuation 0,0 824,0 824,0 849,0 914,0 935,0 935,0 1135,0 1135,0 1175,0 1175,0 2500,0 2500,0 6000,0	MHz MHz MHz MHz MHz MHz MHz	α	40 40 28 30 40 35 30 15	60 57 33 45 65 45 34 25		dB dB dB dB dB dB dB dB dB



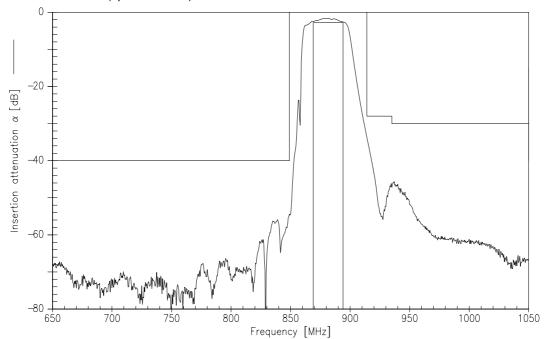
SAW Components						B7719
Low-Loss Filter for Mobile Communication 881,5 MH					,5 MHz	
Data Sheet Characteristics	<u>s</u> n					
Operating temperature range: Terminating source impedance: Terminating load impedance:	$Z_{\rm S}$	= 50 Ω	o +80 °C 2 (unbalanc Ω (balance			
			min.	typ.	max.	
Center frequency		f _C	—	881,5	_	MHz
Maximum insertion attenuation 869,0 894,0	MHz	$lpha_{max}$	_	2,8	3,1	dB
Amplitude ripple (p-p) 869,0 894,0	MHz	Δα	_	1,2	1,5	dB
Unbalanced input VSWR 869,0 894,0	MHz		_	1,6	2,0	
Balanced output VSWR 869,0 894,0	MHz		_	1,7	2,0	
Output phase balance $(\phi(S_{31})-\phi(S_{21})+18$ 869,0 894,0			-10	_	+10	degree
Output amplitude balance (S ₃₁ /S ₂₁) 869,0 894,0	MHz		-2,0		2,0	dB
Common mode Suppression 0,1 849,0 869,0 894,0 914,0 6000,0		S _{sc12}	20 20 20	45 25 30	 	
Attenuation 0,0 824,0 824,0 849,0 914,0 935,0 935,01135,0 1135,01175,0 1175,02500,0 2500,04000,0 4000,06000,0	MHz MHz MHz MHz MHz MHz MHz	α	40 38 26 30 40 35 30 15	60 54 31 45 65 45 34 25		dB dB dB dB dB dB dB dB



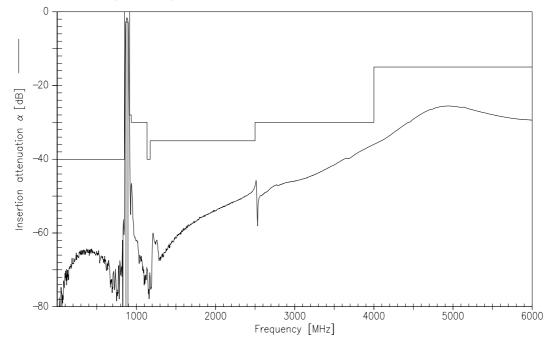
SAW Components							B7719
Low-Loss Filter for Mobile Communication				881	,5 MHz		
Data Sheet							
Characteristics							
Operating temperature range: Terminating source impedance: Terminating load impedance:		Z_{S}	= 50 Ω	o +85 °C 2 (unbalanc Ω (balance			
				min.	typ.	max.	
Center frequency			f _C	—	881,5	—	MHz
Maximum insertion attenuation 869.0	n 894,0	MHz	$lpha_{max}$		2,8	3,2	dB
					,	-,_	
Amplitude ripple (p-p) 869,0	894,0	MHz	Δα		1,2	1,6	dB
Unbalanced input VSWR 869,0	894,0	MHz		_	1,6	2,0	
Balanced output VSWR	894,0	MHz			1,7	2,0	
003,0	094,0				1,7	2,0	
Output phase balance $(\phi(S_{31}) - 869,0)$	φ(S ₂₁)+180 894,0			-10	_	+10	degree
Output amplitude balance (S ₃) 869,0	₁ /S ₂₁) 894,0	MHz		-2,0	_	2,0	dB
Common mode Suppression			S _{sc12}				
869,0	849,0 894,0 6000,0	MHz MHz MHz		20 20 20	45 25 30	_ _ _	
Attenuation			α				
824,0 914,0 935,0 1135,0	2500,0	MHz MHz MHz MHz MHz MHz MHz		40 38 26 30 40 35 30	60 54 31 45 65 45 34		dB dB dB dB dB dB dB
4000,0		MHz		30 15	34 25	_	dB



Transfer function (spec at 25 °C)

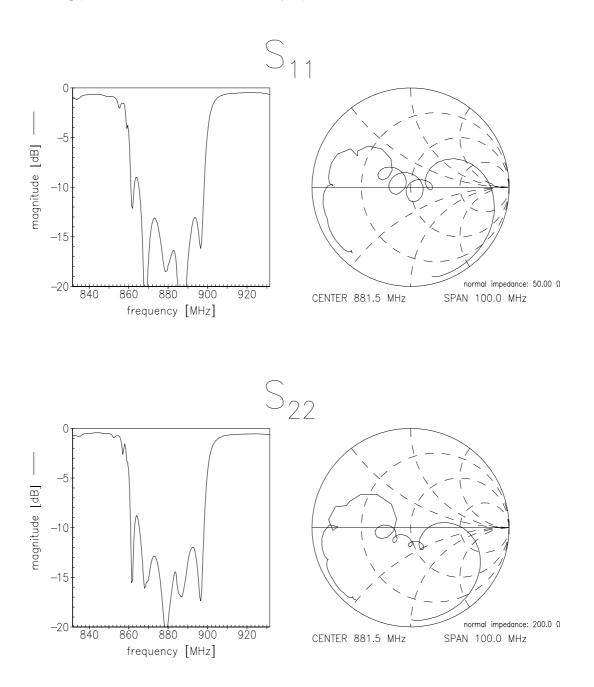


Transfer function (wideband)



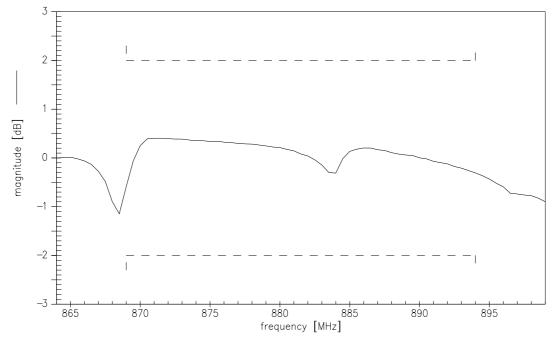
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Low-Loss Filter for Mo	bile Communication	881,5 MHz
Data Sheet	SMD	

Matching (measurement; S22 is balanced output)

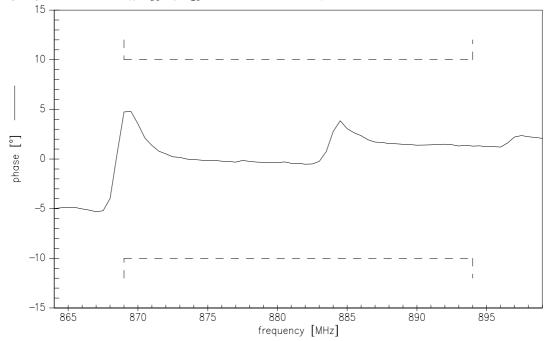


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Data Sheet	=MD	

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



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



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