SAW Components

EPCOS

Data Sheet B7838



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SAW Components		B7838
Low-Loss Filter for Mobile Communication		881,5 MHz
ata Sheet		

Data Sheet

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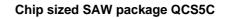
Features

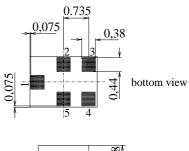
- Low-loss RF filter for mobile telephone GSM850/AMPS system, receive path
- Usable passband 25 MHz
- Unbalanced to balanced operation
- Excellent symmetry
- Impedance transformation from 50 Ω to 100 Ω
- Suitable for GPRS class 1 to12
- Ceramic package for Surface Mounted Technology (SMT)

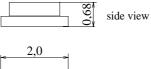
Unbalanced input

Balanced output

To be grounded







4,1

top view

Terminals

Ni, gold-plated

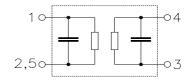
Pin configuration

1

3, 4

2, 5

Dimensions in mm, approx. weight 0,007g



Туре	Ordering code	Marking and Package according to	Packing according to
B7838	B39881-B7838-C710	C61157-A7-A111	F61074-V8151-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 voltage	V [*] ESD	100*	V	Machine Model, 10 pulses
Input power at GSM850, GSM900,	$P_{\rm IN}^{\rm Loc}$	15	dBm	peak power of GSM signal, duty cycle 4:8
GSM1800 and GSM1900				
Tx bands				

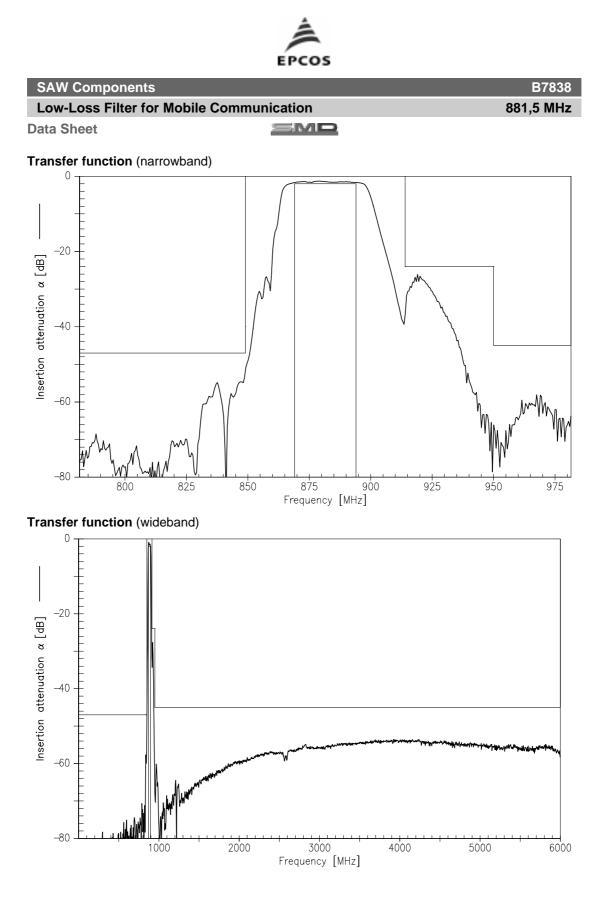
* -acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses



SAW Components	5						B7838
Low-Loss Filter for Mobile Communication					88 [,]	1,5 MHz	
Data Sheet Characteristics							
Operating temperature Terminating source im Terminating load impe	pedance:	$Z_{\rm S}$ =		°C Ω (unbalanc Ω (balance			
				min.	typ.	max.	
Center frequency			f _C		881,5	_	MHz
Maximum insertion a	ttenuation 869,0 894,0	MHz	α_{max}	_	1,7	2,0	dB
Amplitude ripple (p-p) 869,0 894,0	MHz	Δα	_	0,5	0,8	dB
Input return loss	869,0 894,0	MHz		10,0	11,0	_	dB
Output return loss	869,0 894,0	MHz		10,0	11,0	_	dB
Output amplitude ba	lance (S ₃₁ /S ₂₁) 869,0 894,0	MHz		-0,5	0	0,5	dB
Output phase balanc	e $(\phi(S_{31})-\phi(S_{21})+18$ 869,0 894,0			-5	0	5	degree
Attenuation	0.0 0.40.0		α	47			
	0,0 840,0	MHz		47	55		dB
	840,0 849,0			47	50 27		dB
	914,0 950,0 950,06000,0			24 45	27 55		dB dB



SAW Components								B7838
Low-Loss Filter for Mobile Communication				881	,5 MHz			
Data Sheet								
Characteristics								
Operating temperature ra Terminating source imperation Terminating load impeda	edance:		T Z _S Z _L	= 50 Ω	o +85 °C Ω (unbalanc Ω (balance			
					min.	typ.	max.	
Center frequency				f _C		881,5	—	MHz
Maximum insertion atte		on 894,0	MHz	$lpha_{max}$	_	1,9	2,2	dB
Amplitude ripple (p-p)	869,0	894,0	MHz	Δα	_	0,7	1,0	dB
Input return loss	869,0	894,0	MHz		10,0	11,0	_	dB
Output return loss	869,0	894,0	MHz		10,0	11,0		dB
Output amplitude balar	-	₃₁ /S ₂₁) 894,0	MHz		-0,5	0	0,5	dB
Output phase balance		-\$\$(\$\$_21)\$+180 894,0			-5	0	5	degree
	840,0 914,0	840,0 849,0 950,0 6000,0	MHz MHz MHz MHz	α	47 40 24 45	55 45 27 55	 	dB dB dB dB

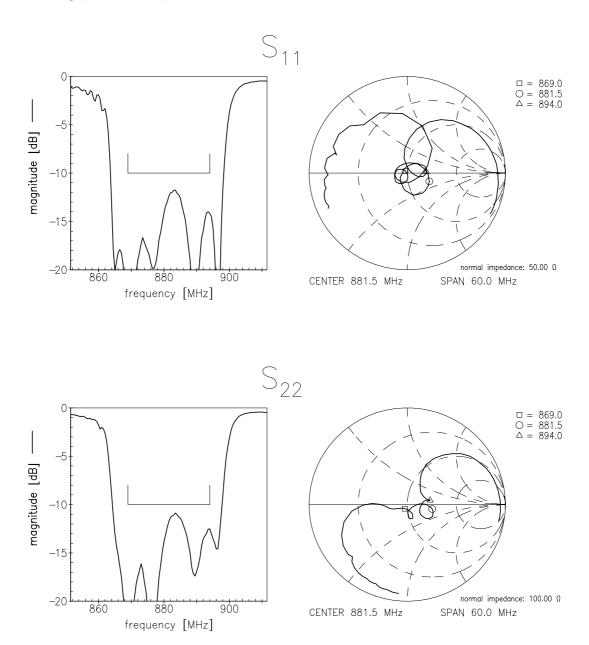


Mar 04, 2004



SAW Components		B7838
Low-Loss Filter for Mobile Comm	unication	881,5 MHz
Data Sheet	SMD	

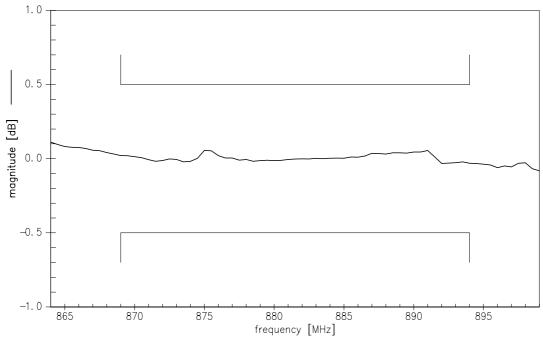
Matching (measurement)



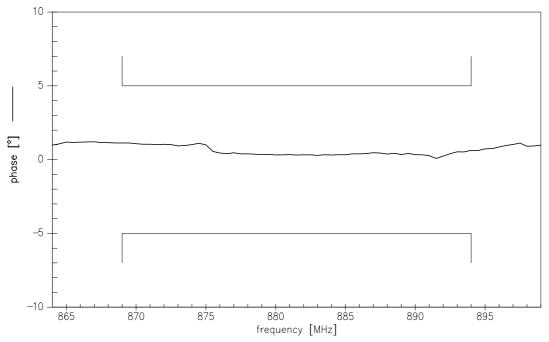
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Data Sheet		

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