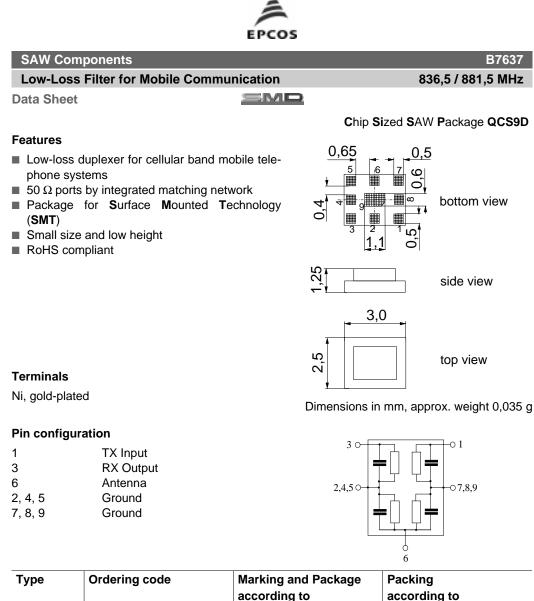


SAW Components

Data Sheet B7637





Туре	Ordering code	Marking and Package	Packing
		according to	according to
B7637	B39881-B7637-L710	C61157-A3-A12	F61074-V8211-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 ¹⁾	V	machine model, 10 pulses
Input power max.	P _{IN}			source and load impedance 50 Ω
	<u> </u>	30	dBm	continuous wave
869,0 894,0 MHz	<u></u>	22	dBm	T=55°C, 50.000 h
elséwhere)	10	dBm	J

2

1) -acc. toJESD22-115A (Machine Model), 10 negatie & 10 positive pulses



SAW Components						B7637
Low-Loss Filter for	Mobile Communication	on		8	36,5 / 88 [,]	I,5 MHz
Data Sheet	<u>_</u>	MD				
Characteristics						
Operating temperature	range <i>T</i> = 25 + 2	2°C				
Terminating impedance			= 50 Ω;	$Z_{\text{TX}} = 50$	Ω	
Characteristics TX - A	NT		min.	typ.	max.	
Center frequency		f _c		836,50		MHz
Maximum insertion atter	nuation	α _{max}		,		
	824,00 849,00 MH		_	1,8	2,1	dB
Amplitude ripple (p-p)		Δα				
	824,00 849,00 MH	lz	—	0,8	1,1	dB
Return loss						
	824,00 849,00 MH		10	12	—	dB
Attenuation	400.00 CO0.00 MI	α	35	20		
	100,00 698,00 MH 698,00 746,00 MH		35 36	39 38	_	dB dB
	746,00 746,00 MF		30	38	_	dB
	869,00 894,00 MH		46	50		dB
	954,00 1570,00 MF		30	36	_	dB
	1570,00 1698,00 MF		40	50	_	dB
	1698,00 2547,00 MH		30	38	_	dB
	2547,00 3000,00 MH		20	27		dB

Characteristics ANT	- RX			min.	typ.	max.	
Center frequency			f _c		881,50	_	MHz
Maximum insertion atte	enuation		α_{max}				
	869,00	894,00 MHz		_	2,2	2,6	dB
Amplitude ripple (p-p)			$\Delta \alpha$				
	869,00	894,00 MHz	:	—	0,9	1,3	dB
Return loss							
	869,00	894,00 MHz	:	9	11	—	dB
Attenuation			α				
	100,00	804,00 MHz		35	43	—	dB
	824,00	849,00 MHz	:	54	61	—	dB
	954,00	1648,00 MHz		35	45	_	dB
	1648,00	1698,00 MHz		40	51	_	dB
	1698,00	2547,00 MHz		40	50	_	dB
	2547,00	3000,00 MHz		35	45	—	dB
TX band phase @ RX p	ort reference	plane					
	824,00	849,00 MHz	:	130	_	230	degree



SAW Components		B7637
Low-Loss Filter for Mobile Commu	nication	836,5 / 881,5 MHz
Data Sheet	SMD	

Characteristics TX - RX	min.	typ.	max.	
Isolation between TX and RX path α				
100,00 800,00 MHz	50	57	_	dB
824,00 849,00 MHz	56	59	_	dB
869,00 894,00 MHz	47	50	_	dB
954,00 1700,00 MHz	45	51	—	dB





SAW Components					B7637		
Low-Loss Filter for	Mobile Communication		8	36,5 / 88 [,]	1,5 MHz		
Data Sheet							
Characteristics							
1 0 1	Operating temperature range $T = -30 \text{ to } 85^{\circ}\text{C}$ Terminating impedance $Z_{ANT} = 50 \Omega$; $Z_{RX} = 50 \Omega$; $Z_{TX} = 50 \Omega$						
Characteristics TX - A	NT	min.	typ.	max.			
Center frequency		f _c —	836,50	_	MHz		
Maximum insertion atter		α _{max}					
	824,00 849,00 MHz		2,0	2,3	dB		
Amplitude ripple (p-p)		Δα					
	824,00 849,00 MHz	— —	1,0	1,3	dB		
Return loss	004.00 040.00 MIL-		44				
Attenuation	824,00 849,00 MHz	9	11	_	dB		
Altenuation	100,00 698,00 MHz	α 35	39	_	dB		
	698,00 746,00 MHz	36	38	_	dB		
	746,00 804,00 MHz	30	38	_	dB		
	869,00 894,00 MHz	45	48	_	dB		
	954,00 1570,00 MHz	30	36	_	dB		
	1570,00 1698,00 MHz	40	50	_	dB		
	1698,00 2547,00 MHz	30	38	—	dB		
	2547,00 3000,00 MHz	20	27		dB		

Characteristics ANT - RX		min.	typ.	max.	
Center frequency	f _c	_	881,50	_	MHz
Maximum insertion attenuation	α_{max}				
869,00 894,0	0 MHz	-	2,4	2,8	dB
Amplitude ripple (p-p)	$\Delta \alpha$				
869,00 894,0	0 MHz	_	1,3	1,7	dB
Return loss					
869,00 894,0	0 MHz	8	10	—	dB
Attenuation	α				
100,00 804,0	0 MHz	35	43	—	dB
824,00 849,0	0 MHz	54	59	_	dB
954,00 1648,0	0 MHz	35	46	_	dB
1648,00 1698,0	0 MHz	40	51	_	dB
1698,00 2547,0	0 MHz	40	50	_	dB
2547,00 3000,0	0 MHz	35	45	—	dB
TX band phase @ RX port reference plane					
824,00 849,0	0 MHz	130	_	230	degree



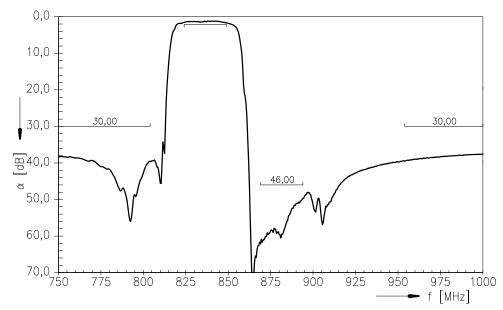
SAW Components		B7637
Low-Loss Filter for Mobile Commu	nication	836,5 / 881,5 MHz
Data Sheet	SMD	

Characteristics TX - RX	min.	typ.	max.	
Isolation between TX and RX path	α			
100,00 800	,00 MHz 50	56	_	dB
824,00 849	,00 MHz 55	57	_	dB
869,00 894	,00 MHz 47	49	—	dB
954,00 1700	00 MHz 45	51	—	dB

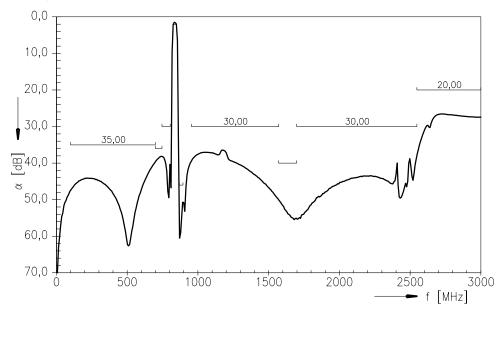




Frequency Response TX - ANT

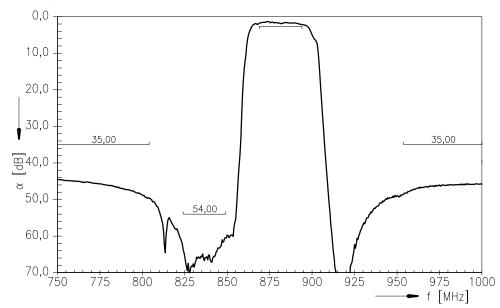


Frequency Response TX - ANT (wideband)

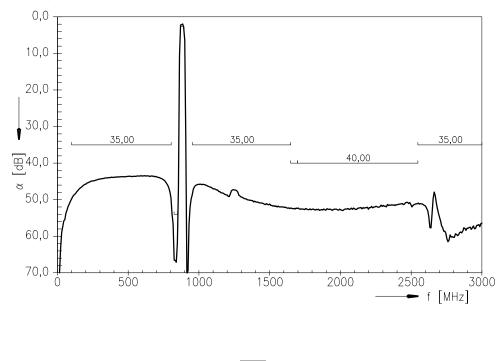




Frequency Response ANT - RX



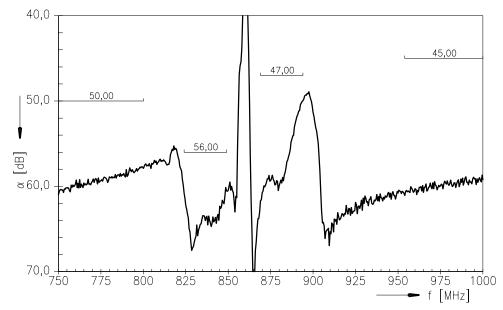
Frequency Response ANT - RX (wideband)



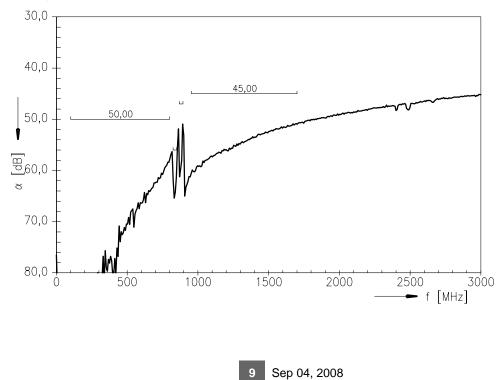
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Frequency Response TX - RX (wideband)



	EPCOS	
SAW Components		B7637
Low-Loss Filter for M	obile Communication	836,5 / 881,5 MHz
Data Sheet	SMD	

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