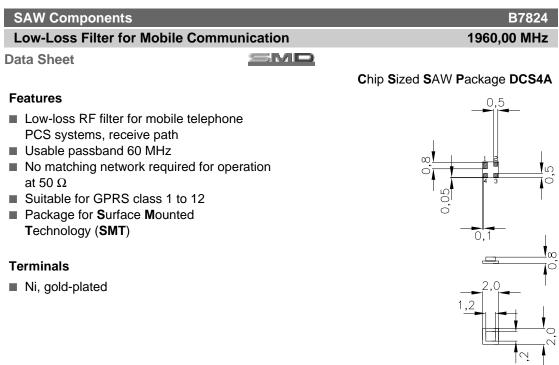


SAW Components

Data Sheet B7824



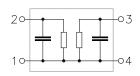




Dimensions in mm, approx. weight 0,01 g

Pin configuration

2	Input
1	Input - ground
3	Output
4	Output - ground



Туре	Ordering code	Marking and Package according to	Packing according to
B7824	B39202-B7824-A510	C61157-A7-A63	F61074-V8154-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operating temperature range	Т	- 40/+ 85	°C	
Storage temperature range	T _{stg}	- 40/+ 85	°C	
DC voltage	V _{DC}	5	V	
ESD voltage	V _{ESD}	50	V	
Input power at	-			
GSM850, GSM900	P _{IN}	15	dBm	peak power of GSM signal,
GSM1800, GSM1900	P _{IN}	12	dBm	duty cycle 4:8
Tx bands				



SAW Component	ts						B7824
Low-Loss Filter f	1960,00 MHz						
Data Sheet		=N					
Characteristics							
Operating temperatu		Т	= +25 +	2°C			
Terminating source	•		= 50 Ω				
Terminating load im	pedance:	Z_{L}	= 50 Ω				
				min.	typ.	max.	
Center frequency			f _c		1960,0		MHz
Maximum insertior	attenuation		α_{max}				
	1930,01990	,0 MHz		_	2,7	3,3	dB
Amplitude ripple (p	p-p)		Δα				
	1930,01990	,0 MHz		—	1,3	1,9	dB
Input VSWR							
	1930,01990	,0 MHz		—	1,85	2,0	
Output VSWR							
	1930,01990	,0 MHz		_	1,85	2,0	
Attenuation			α				
	10,01500			19,0	21,0	—	dB
	1500,01800			23,0	27,0	—	dB
	1800,01910			13,0	22,0	—	dB
	2010,02070			11,0	18,0	—	dB
	2070,02800			21,0	23,0	—	dB
	2800,06000	,0 MHz		16,0	18,0	—	dB



SAW Component	S							B7824
Low-Loss Filter f	1960,00 MHz							
Data Sheet			SM					
Characteristics								
Operating temperatu			Т	= -10 to	o +80° C			
Terminating source i	•	:		= 50 Ω				
Terminating load imp	bedance:		Z_{L}	= 50 Ω				
					min.	typ.	max.	
Center frequency				f _c	—	1960,0	—	MHz
Maximum insertion	attenuati	on		α_{max}				
	1930,0	1990,0	MHz	ar	—	3,2	4,0	dB
Amplitude ripple (p	-p)			Δα				
	1930,0	1990,0	MHz		_	1,7	2,5	dB
Input VSWR								
	1930,0	1990,0	MHz		—	1,85	2,0	
Output VSWR								
	1930,0	1990,0	MHz		—	1,85	2,0	
Attenuation				α				
	10,0	1500,0	MHz		19,0	21,0		dB
	1500,0		MHz		23,0	27,0		dB
		1910,0	MHz		8,0	15,0	_	dB
		2070,0	MHz		8,0	14,0		dB
		2800,0	MHz		21,0	23,0	_	dB
	2800,0	6000,0	MHz		16,0	18,0	—	dB

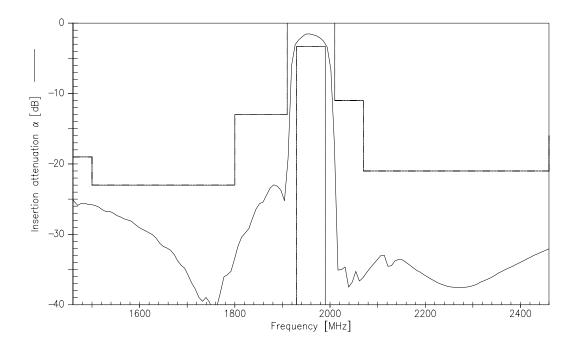


SAW Components								B7824
Low-Loss Filter for Mobile Communication								00 MHz
Data Sheet								
Characteristics								
Operating temperature r Terminating source imperation Terminating load impeda	dance	:	Z_{S}	= -30 to = 50 Ω = 50 Ω	o +85°C			
					min.	typ.	max.	
Center frequency				f _c	_	1960,0	—	MHz
Maximum insertion atte		on 1990,0	MHz	α_{max}	_	3,3	4,3	dB
Amplitude ripple (p-p) 19	930,0	1990,0	MHz	Δα	_	1,7	2,7	dB
Input VSWR 1	930,0	1990,0	MHz		_	1,85	2,0	
Output VSWR	930,0	1990,0	MHz		_	1,85	2,0	
Attenuation	10.0	4500.0		α	10.0	24.0		
1	10,0 500,0	1500,0 1800,0	MHz MHz		19,0 23,0	21,0 27,0	_	dB dB
		1910,0	MHz		23,0 7,5	14,0	_	dB
		2070,0	MHz		7,0	12,0	—	dB
20	070,0	2800,0	MHz		21,0	23,0	_	dB
28	800,0	6000,0	MHz		16,0	18,0	_	dB

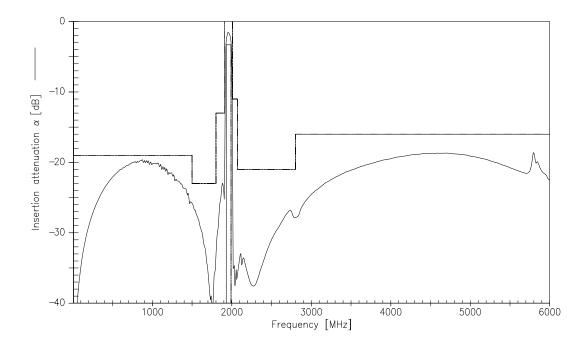




Transfer Function(25°C spec)



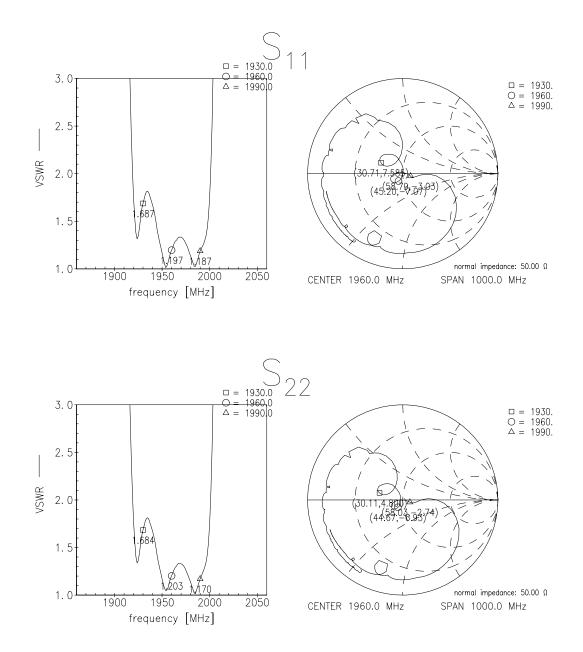
Transfer function (wideband)



Jul 03, 2002 6



Reflection functions





SAW Components		B7824
Low-Loss Filter for Mobile Comm	nunication	1960,00 MHz
Data Sheet	SMD	

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