

SAW Components

Data Sheet B7843





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Low-Loss Filter for Mobile Communication

1855,00 MHz

Data Sheet

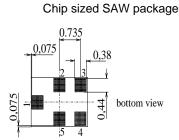


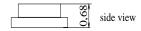
Features

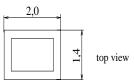
- Low-loss RF filter for mobile telephone Korean PCS systems, receive path
- Usable passband 30 MHz
- Unbalanced to balanced operation
- Impedance transformation from 50 Ω to 100 Ω
- Ceramic package for Surface Mounted technology (SMT)

Terminals

■ Ni, gold-plated



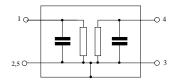




Dimensions in mm, approx. weight 0,009 g

Pin configuration

3, 4 **Balanced Output** 2,5 Case ground



Туре	Ordering code	Marking and Package	Packing		
		according to	according to		
B7843	B39192-B7843-C710	C61157-A7-A111	F61074-V8151-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 30/+ 85	°C	
Storage temperature range	T_{stg}	- 40/+ 85	°C	
DC voltage	$V_{\rm DC}$	0	V	
Input power max.	P_{INI}	0	dBm	CDMA signal



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Characteristics

 $T = -30 \text{ to} + 85^{\circ}\text{C}$ $Z_{\text{S}} = 50 \Omega \text{ (unbalanced)}$ $Z_{\text{L}} = 100\Omega \text{ (balanced)}$ Operating temperature range: Terminating source impedance: Terminating load impedance:

		min.	typ.	max.	
Center frequency	$f_{\rm C}$	_	1855,0	_	MHz
Maximum insertion attenuation					
Maximum insertion attenuation 1840,01870,0 MH	α _{max}	_	3,0	3,2	dB
	_		0,0	5,2	
Amplitude ripple (p-p)					
1840,01870,0 MH	Z	_	1,3	1,5	dB
Output phase balance $(\phi(S_{31})-\phi(S_{21})+180^{\circ})$					
1840,01870,0 MH	z	-10	_	10	0
Output amplitude balance ($ S_{31}/S_{21} $)	_	1.0		1.0	4D
1840,01870,0 MH	Z	-1,0	_	1,0	dB
Input VSWR					
1840,01870,0 MH	Z	_	2,0	2,1	
Output VSWP					
Output VSWR 1840,01870,0 MH	Z	_	2,2	2,3	
			,	_,-	
Attenuation	α				
100,01750,0 MH		45,0	50,0	_	dB
1750,01780,0 MH		34,0	36,0	_	dB
1930,01960,0 MH		30,0	38,0	_	dB
1960,06000,0 MH	Z	40,0	43,0	_	dB



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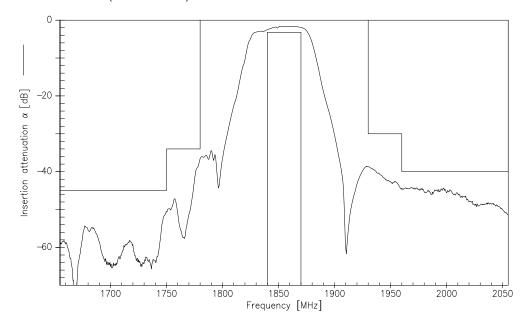
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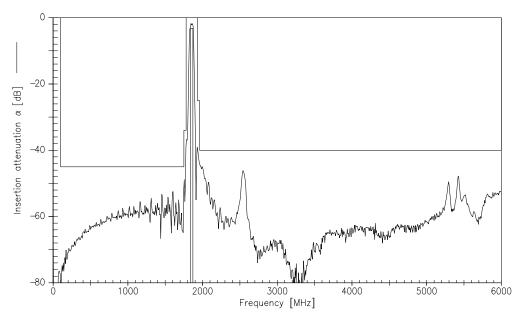
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Transfer function (measurement)



Transfer function (wideband measurementt)





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