

SAW Components

Data Sheet B7843





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B7843

Low-Loss Filter for Mobile Communication

1855,00 MHz

Chip sized SAW package

Data Sheet

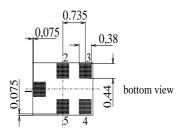


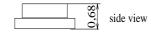
Features

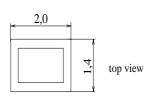
- Low-loss RF filter for mobile telephone Korean PCS systems, receive path
- Usable passband 30 MHz
- Unbalanced to balanced operation
- \blacksquare Impedance transformation from 50 Ω to 100 Ω
- Ceramic package for Surface Mounted technology (SMT)

Terminals

■ Ni, gold-plated





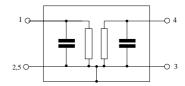


Dimensions in mm, approx. weight 0,009 g

Pin configuration

1 Input

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	$T_{\rm stg}$	- 40/ + 85	°C	
DC voltage	$V_{\rm DC}$	0	V	
Input power max.	P_{IN}	0	dBm	CDMA signal



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Characteristics

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

		min.	typ.	max.	
Center frequency	$f_{\rm C}$	_	1855,0	_	MHz
Maximum insertion attenuation	01				
1840,01870,0 MHz	α_{max}		3,0	3,2	dB
1010,01070,012			0,0	0,2	
Amplitude ripple (p-p)					
1840,01870,0 MHz			1,3	1,5	dB
Output phase balance $(\phi(S_{31})-\phi(S_{21})+180^{\circ})$					
1840,01870,0 MHz		-10	_	10	•
//-					
Output amplitude balance ($ S_{31}/S_{21} $)					
1840,01870,0 MHz		-1,0		1,0	dB
Input VSWR					
1840,01870,0 MHz			2,0	2,1	
Output VSWR					
1840,01870,0 MHz		_	2,2	2,3	
Attenuation	α				
100,01750,0 MHz		45,0	50,0	_	dB
1750,01780,0 MHz		34,0	36,0	_	dB
1930,01960,0 MHz		30,0	38,0	_	dB
1960,06000,0 MHz		40,0	43,0	_	dB



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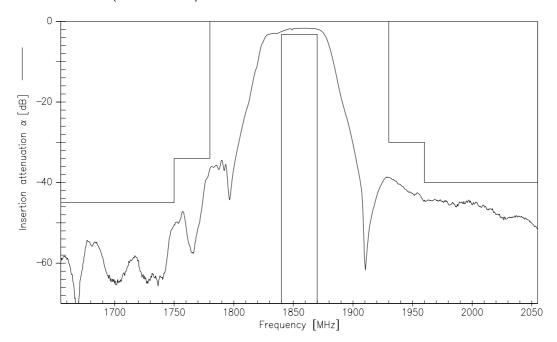
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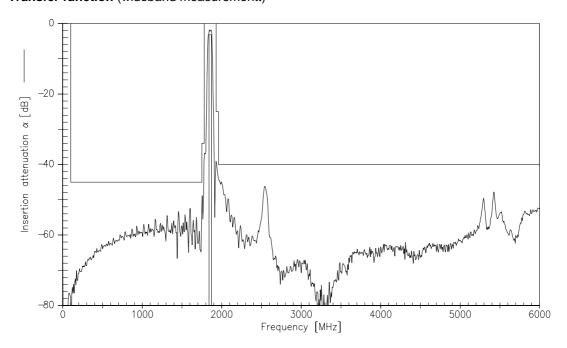
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Transfer function (measurement)



Transfer function (wideband measurementt)





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