

Data Sheet B7713, Pb-Free





Low-Loss Filter for Mobile Communication

836,5 MHz

B7713

Data Sheet

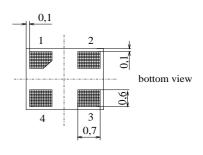


Features

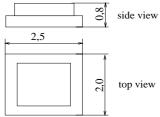
- Low-loss RF filter for mobile telephone AMPS systems, transmit path
- High Rx rejection
- Usable passband 25 MHz
- Package for Surface Mounted Technology (SMT)
- Pb-Free

Terminals

■ Gold-plated Ni



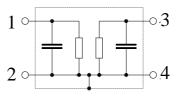
Chip Size SAW Package DCS4H



Dimensions in mm, approx. weight 0,015 g

Pin configuration

1	Input		
3	Output		
2 4	Ground		



Туре	Ordering code	Marking and Package according to	Packing according to		
B7713	B39841-B7713-K710	C61157-A7-A136	F61074-V8189-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operating temperature range	T	- 20/+ 70	°C	
Storage temperature range	$T_{ m stg}$	- 40/+ 85	°C	
DC voltage	$V_{\rm DC}$	5	V	
ESD voltage	V^*_{ESD}	100*	V	Machine Model, 10 pulses
Input Power max.	P_{IN}	15	dBm	source impedance 50 Ω

 $^{^{\}star}$ - acc. to JESD22-A115A (Machine Model), 10 negative & 10 positive pulses



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Characteristics

Operating temperature range:

 $T = -20 \text{ to } +70 \,^{\circ}\text{C}$ $Z_{\text{S}} = 50 \,\Omega$ $Z_{\text{L}} = 50 \,\Omega$ Terminating source impedance: Terminating load impedance:

				min.	typ.	max.	
Center frequency			f _C	_	836,5	_	MHz
Maximum insertion attenuation			α_{max}				
824,0	849,0	MHz	max		2,5	3,5	dB
Amplitude ripple (p-p)			Δα				
824,0	849,0	MHz	_6,	_	1,0	2,0	dB
Return loss							
824,0	849,0	MHz		_	12,0	10,0	dB
Attenuation			α				
	800,0	MHz	~	40,0	50,0	_	dB
,	1050,0	MHz		30,0	32,0	_	dB
1050,0	2000,0	MHz		45,0	50,0	_	dB
2000,0	2600,0	MHz		35,0	40,0	_	dB
2600,0	3200,0	MHz		30,0	40,0	_	dB
3200,0	4000,0	MHz		20,0	25,0	_	dB
4000,0	6000,0	MHz		10,0	18,0	_	dB



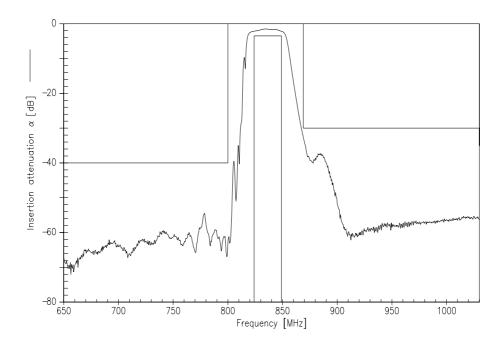
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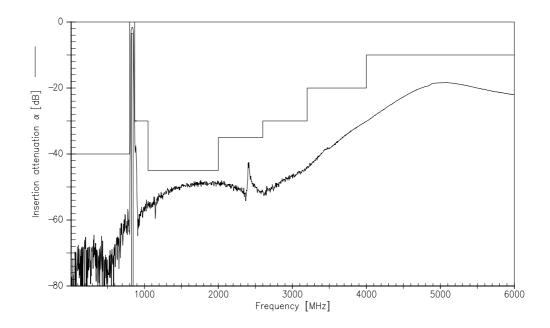
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Transfer function



Transfer function (wideband)





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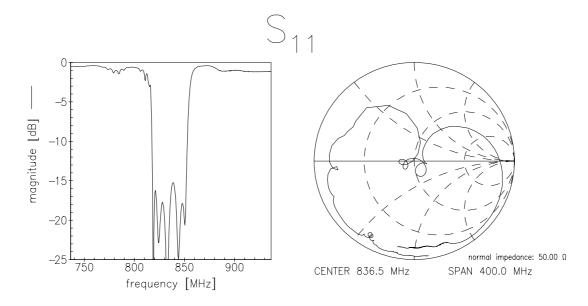
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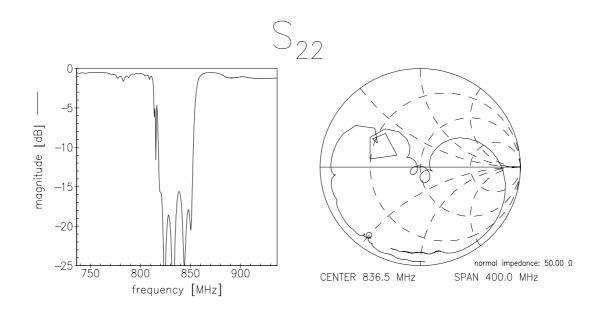
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Reflection functions







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