

Data Sheet B4147





B4147

Low-Loss Filter for Mobile Communication

836,50 MHz

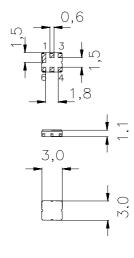
Ceramic package DCC6C

Data Sheet



Features

- Low-loss RF filter for mobile telephone AMPS systems, transmit path
- Usable passband 25 MHz
- \bullet No matching network required for operation at 50 Ω
- Package for Surface Mounted Technology (SMT)



Terminals

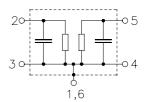
Ni, gold-plated

Dimensions in mm, approx. weight 0,037g

Pin configuration

2 Input5 Output

1, 3, 4, 6 Ground, to be grounded



Туре	Ordering code		Packing according to		
B4147	B39841-B4147-U410	C61157-A7-A67	F61074-V8088-Z000		

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 30 / + 85	°C	
Storage temperature range	T_{stg}	- 40 / + 85	°C	
DC voltage	$V_{\rm DC}$	5	V	
Input power max.	P_{IN}	16	dBm	CDMA signal



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Characteristics

 $T = +25^{\circ} \text{C}$ $Z_{\text{S}} = 50 \Omega$ $Z_{\text{L}} = 50 \Omega$ Operating temperature range: Terminating source impedance: Terminating load impedance:

			min.	typ.	max.	
Center frequency	1	f _c	_	836,5	_	MHz
Maximum insertion attenuation	(α_{max}				
824,0 849	0 MHz			2,7	3,0	dB
Amplitude ripple (p-p)		$\Delta \alpha$				
824,0 849	0 MHz		_	1,7	2,0	dB
VSWR						
824,0 849	0 MHz		_	1,78	1,92	
Attenuation	(α				
0,0 779		~	31,0	34,0	_	dB
779,0 805			25,0	31,0	_	dB
869,0 894			40,0	44,0	_	dB
894,0 979			36,0	40,0	_	dB
979,01030	0 MHz		38,0	40,0	_	dB
1030,01300	0 MHz		36,0	39,0	_	dB
1300,01580	0 MHz		28,0	32,0	_	dB
1580,01698	0 MHz		24,0	30,0	_	dB
1698,02547	0 MHz		14,0	22,0	_	dB
Rx band suppression	(α				
869,0 894	0 MHz		40,0	44,0	_	dB



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Characteristics

Operating temperature range:

 $T = -30 \text{ to } +85^{\circ}\text{C}$ $Z_{\text{S}} = 50 \Omega$ $Z_{\text{L}} = 50 \Omega$ Terminating source impedance: Terminating load impedance:

				min.	typ.	max.	
Center frequency			f _C	_	836,5	_	MHz
Maximum insertion attenuation	on		α_{max}				
	849,0	MHz	Tilax	_	3,0	3,5	dB
Amplitude ripple (p-p)			Δα				
	849,0	MHz	Δα	_	2,0	2,5	dB
VOMB							
VSWR 824.0	849,0	MHz		_	1,78	1,92	
	,				,	,	
Attenuation			α				
·	779,0	MHz		31,0	34,0		dB
779,0	805,0	MHz		25,0	31,0	_	dB
869,0	894,0	MHz		40,0	43,0	_	dB
894,0	979,0	MHz		36,0	40,0	_	dB
979,0	1030,0	MHz		38,0	40,0	_	dB
1030,0	1300,0	MHz		36,0	39,0	_	dB
1300,0	1580,0	MHz		28,0	32,0	_	dB
1580,0	1698,0	MHz		24,0	30,0	_	dB
	2547,0	MHz		14,0	22,0		dB
Rx band suppression			α				
	894,0	MHz		40,0	43,0		dB



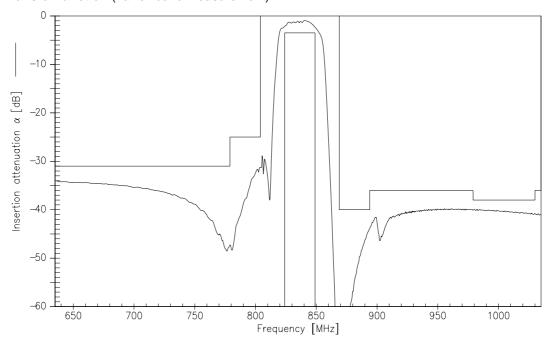
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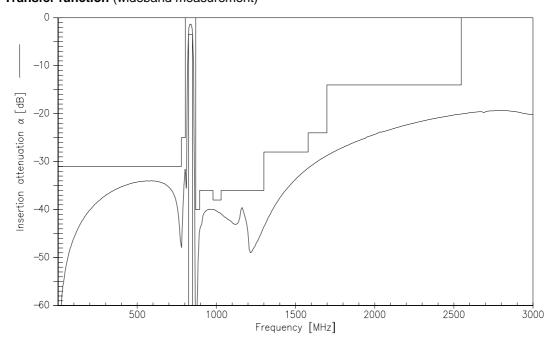
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Transfer function (narrowband measurement)



Transfer function (wideband measurement)





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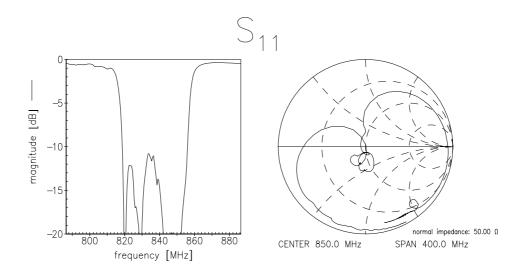
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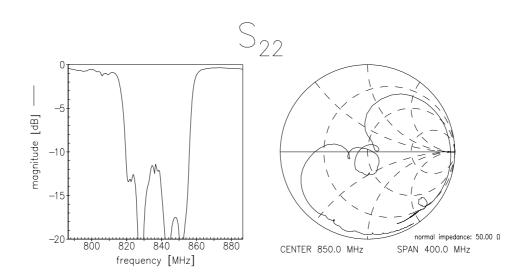
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Reflection functions (measurement)







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