

SAW Components

Data Sheet B4147





SAW Components		B4147
Low-Loss Filter for Mobile Commun	ication	836,50 MHz
Data Sheet	SMD	
Features		Ceramic package DCC6C
 Low-loss RF filter for mobile telephone AMPS systems, transmit path Usable passband 25 MHz No matching network required for opera at 50 Ω Package for Surface Mounted Technology (SMT) 	tion	
		3,0
TerminalsNi, gold-plated		

Pin configuration

-	
2	Input
5	Output
1, 3, 4, 6	Ground, to be grounded



Dimensions in mm, approx. weight 0,037g

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

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	Т	- 30 / + 85	°C	
Storage temperature range	T _{sta}	– 40 / + 85	°C	
DC voltage	V _{DC}	5	V	
Input power max.	P _{IN}	16	dBm	CDMA signal





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Low-Loss Filter for Mobile Commun	ication			836,5	0 MHz
Data Sheet					
Characteristics					
Operating temperature range: Terminating source impedance: Terminating load impedance:	T = +25 $Z_{\rm S} = 50$ $Z_{\rm L} = 50$	5°C Ω Ω			
		min.	typ.	max.	
Center frequency	f _c	_	836,5	_	MHz
Maximum insertion attenuation 824,0 849,0	α _{max} MHz	_	2,7	3,0	dB
Amplitude ripple (p-p) 824,0 849,0	$\Delta \alpha$ MHz	_	1,7	2,0	dB
VSWR 824,0 849,0	MHz	_	1,78	1,92	
Attenuation	α				
0,0 779,0 779,0 805,0 869,0 894,0 894,0 979,0 979,01030,0 1030,01580,0 1580,02547,0	MHz MHz MHz MHz MHz MHz MHz MHz	31,0 25,0 40,0 36,0 38,0 36,0 28,0 24,0 14,0	34,0 31,0 44,0 40,0 39,0 32,0 30,0 22,0		dB dB dB dB dB dB dB dB dB dB
Rx band suppression 869,0 894,0	α MHz	40,0	44,0	_	dB



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Data Sheet	$\leq M$				
Characteristics					
Operating temperature range:	T =	-30 to +85°C			
Terminating source impedance:	$Z_{\rm S}$ =	50 Ω			
Terminating load impedance:	$Z_{L} =$	50 Ω			
		min.	typ.	max.	
Center frequency	t	r	836,5	—	MHz
Maximum insertion attenuation	(X _{max}			
824,0 849,0	MHz		3,0	3,5	dB
Amplitude ripple (p-p)	L	Δα			
824,0 849,0	MHz	_	2,0	2,5	dB
VSWR					
824,0 849,0	MHz	_	1,78	1,92	
Attenuation	(x			
0,0 779,0	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
979,01030,0	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	(x			
869,0 894,0	MHz	40,0	43,0		dB



Transfer function (narrowband measurement)







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Reflection functions (measurement)



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This brochure replaces the previous edition.

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