



SAW Components

Data Sheet B4132





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B4132

Low-Loss Filter for Mobile Communication

836,5 MHz

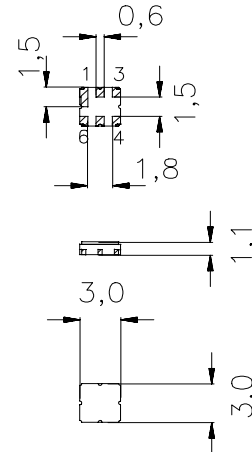
Data Sheet



Ceramic package **DCC6C**

Features

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



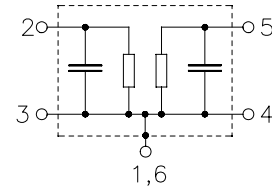
Terminals

- Ni, gold-plated

Dimensions in mm, approx. weight 0,037g

Pin configuration

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



Type	Ordering code	Marking and Package according to	Packing according to
B4132	B39841-B4132-U410	C61157-A7-A67	F61074-V8088-Z000

Electrostatic **S**ensitive **D**evice (**ESD**)

Maximum ratings

Operable temperature range	T	- 30 / + 85	°C	source impedance 50 Ω continous wave
Storage temperature range	T_{stg}	- 40 / + 85	°C	
DC voltage	V_{DC}	0	V	
Source power	P_s	7	dBm	



Characteristics

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

			min.	typ.	max.	
Center frequency	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 ... 750,0 MHz	30,0	34,0	—	dB
		750,0 ... 800,0 MHz	25,0	31,0	—	dB
		869,0 ... 894,0 MHz	40,0	44,0	—	dB
		894,0 ... 1004,0 MHz	36,0	40,0	—	dB
		1004,0 ... 1030,0 MHz	38,0	40,0	—	dB
		1030,0 ... 1209,0 MHz	36,0	39,0	—	dB
		1209,0 ... 1700,0 MHz	20,0	30,0	—	dB
		1700,0 ... 2200,0 MHz	15,0	22,0	—	dB



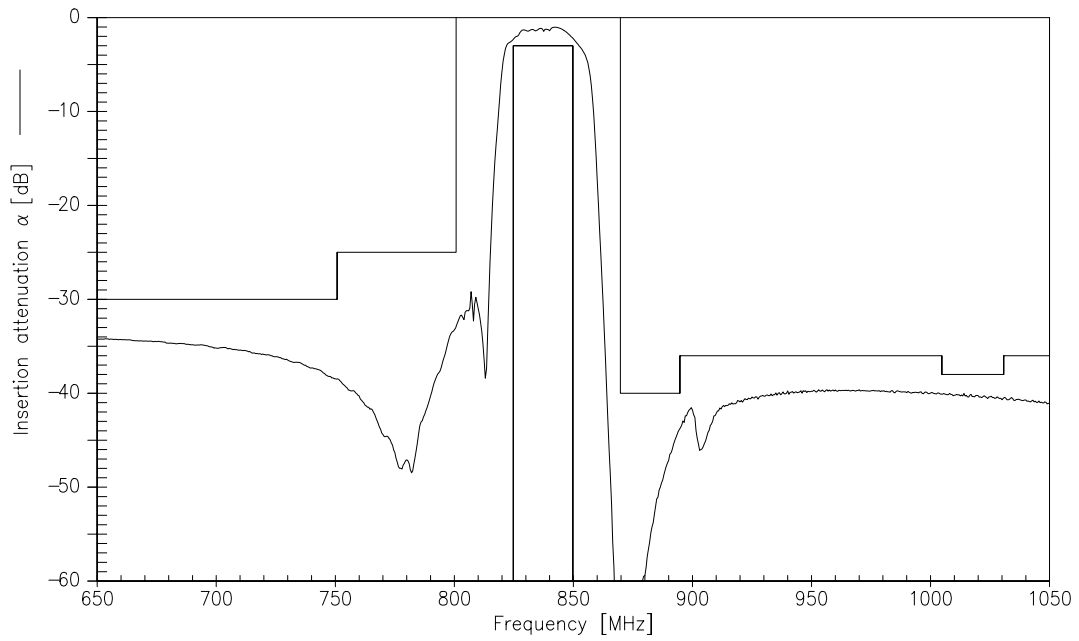
Characteristics

Operating temperature range: $T = -30$ to $+85^{\circ}\text{C}$
 Terminating source impedance: $Z_S = 50\ \Omega$
 Terminating load impedance: $Z_L = 50\ \Omega$

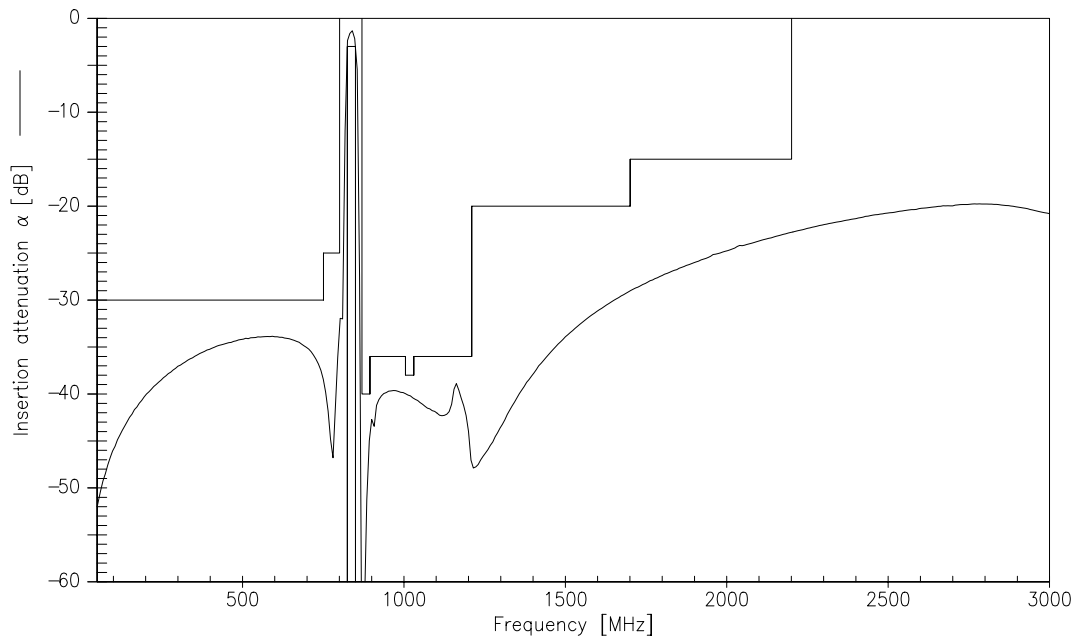
			min.	typ.	max.	
Center frequency	f_c		—	836,5	—	MHz
Maximum insertion attenuation	α_{\max}		—	3,0	3,5	dB
824,0 ... 849,0	MHz					
Amplitude ripple (p-p)	$\Delta\alpha$		—	2,0	2,5	dB
824,0 ... 849,0	MHz					
VSWR			—	1,78	1,92	
		824,0 ... 849,0				MHz
Attenuation	α					
		0,0 ... 750,0	30,0	34,0	—	dB
		750,0 ... 800,0	25,0	31,0	—	dB
		869,0 ... 894,0	40,0	43,0	—	dB
		894,0 ... 1004,0	36,0	40,0	—	dB
		1004,0 ... 1030,0	38,0	40,0	—	dB
		1030,0 ... 1209,0	36,0	39,0	—	dB
		1209,0 ... 1700,0	20,0	30,0	—	dB
		1700,0 ... 2200,0	15,0	22,0	—	dB



Transfer function

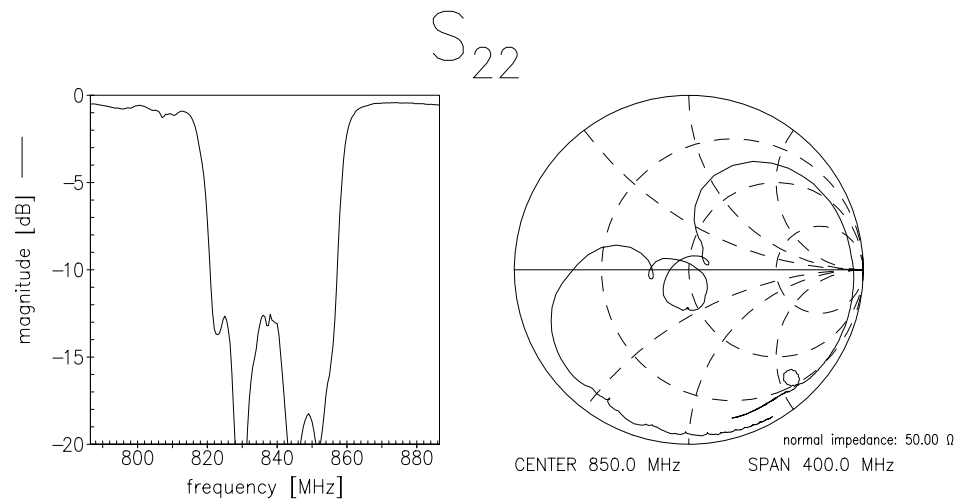
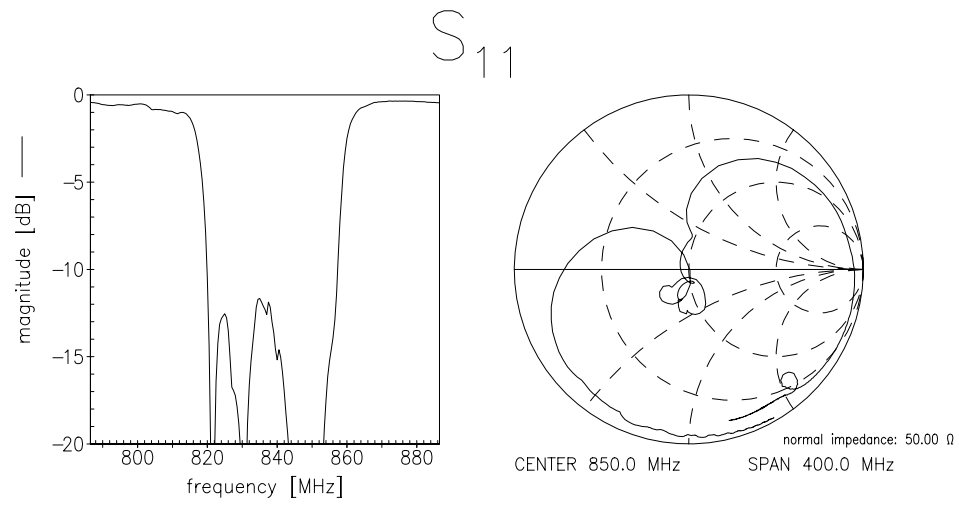


Transfer function (wideband)





Reflection functions





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