



SAW Components

Data Sheet B3851





SAW Components

B3851

Low-Loss Filter for Mobile Communication

881,50 MHz

Preliminary Data



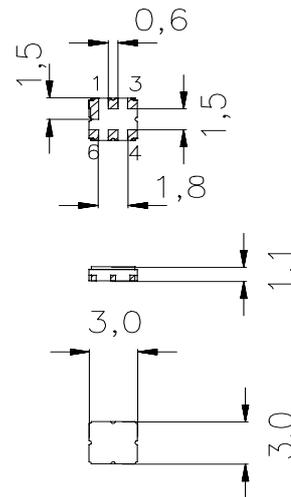
Features

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

Terminals

- Ni, gold-plated

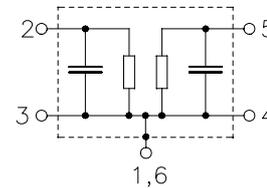
Ceramic package DCC6C



Dimensions in mm, approx. weight 0,037 g

Pin configuration

- 2 Input
- 5 Output
- 1,3,4,6 Ground



Type	Ordering code	Marking and Package according to	Packing according to
B3851	B39881-B3851-U410	C61157-A7-A67	F61074-V8088-Z000

Electrostatic Sensitive Device (ESD)

Maximum ratings

Operable temperature range	T	- 30 / + 85	°C	Source impedance 50 Ω
Storage temperature range	T_{stg}	- 40 / + 85	°C	
DC voltage	V_{DC}	5	V	
Input power max.	P_{IN}	5	dBm	



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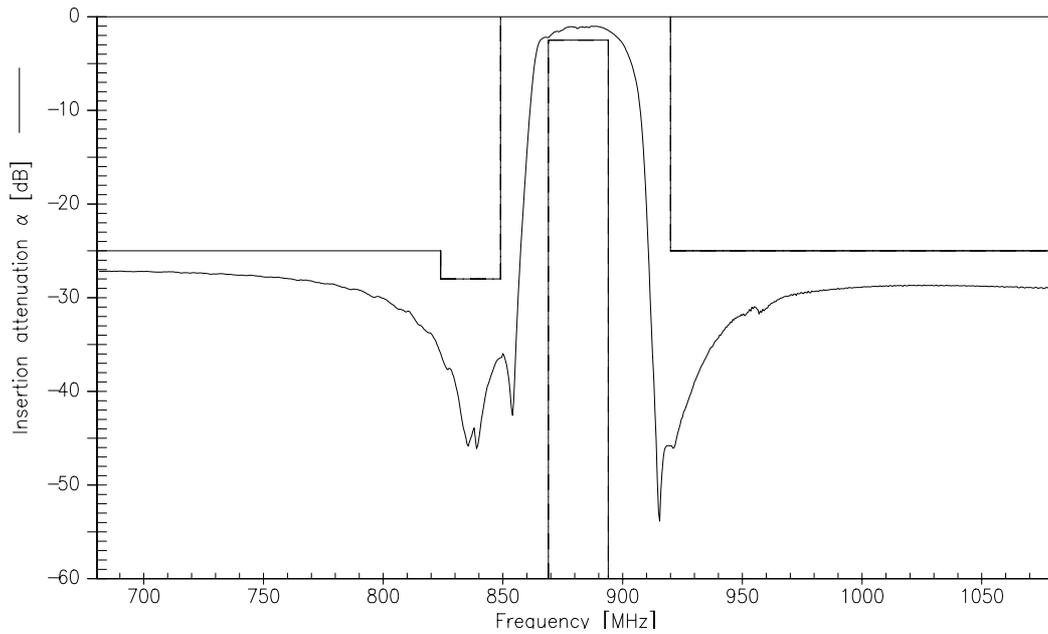
Characteristics

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

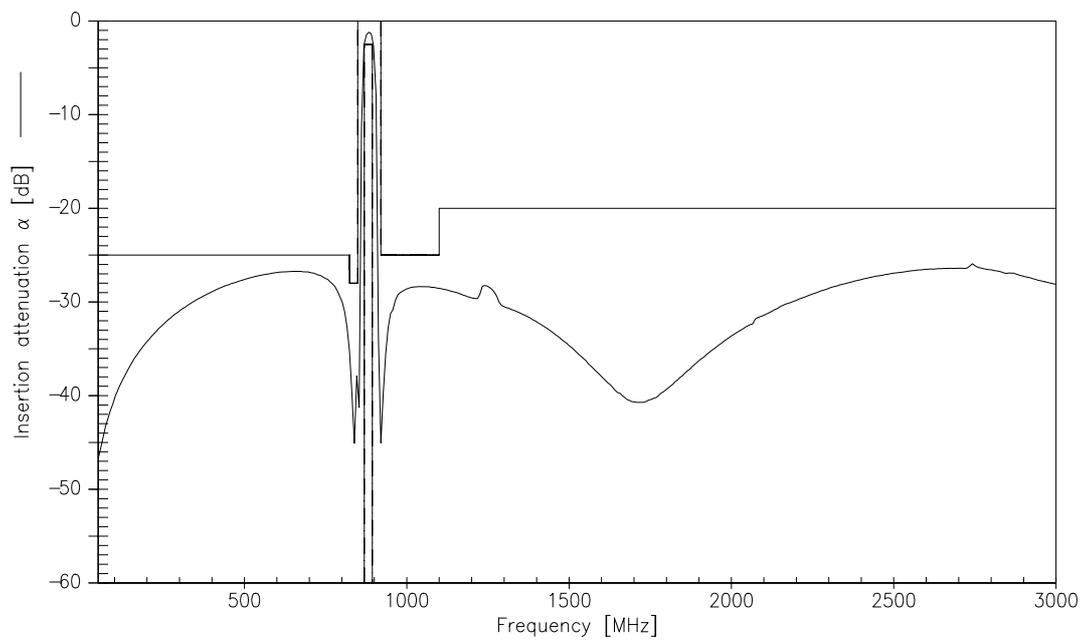
			min.	typ.	max.	
Center frequency	f_c		—	881,50	—	MHz
Maximum insertion attenuation	α_{\max}	869,0 ... 894,0 MHz	—	2,4	2,5	dB
Amplitude ripple (p-p)	$\Delta\alpha$	869,0 ... 894,0 MHz	—	1,4	1,5	dB
VSWR		869,0 ... 894,0 MHz	—	1,7	1,9	
Attenuation	α	0,0 ... 824,0 MHz	25,0	27,0	—	dB
		824,0 ... 849,0 MHz	28,0	35,0	—	dB
		920,0 ... 1100,0 MHz	25,0	29,0	—	dB
		1100,0 ... 3000,0 MHz	20,0	26,0	—	dB



Transfer function



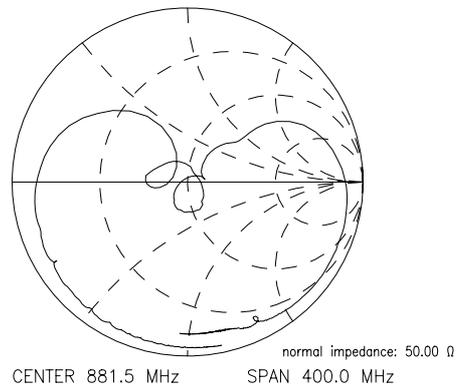
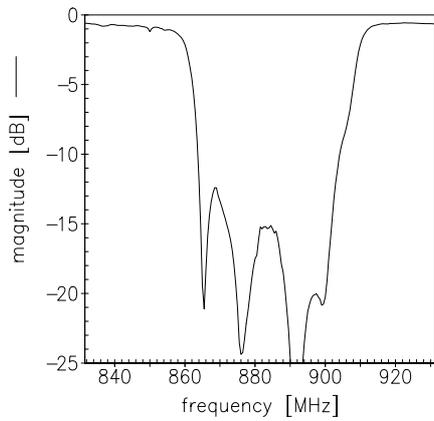
Transfer function (wideband)



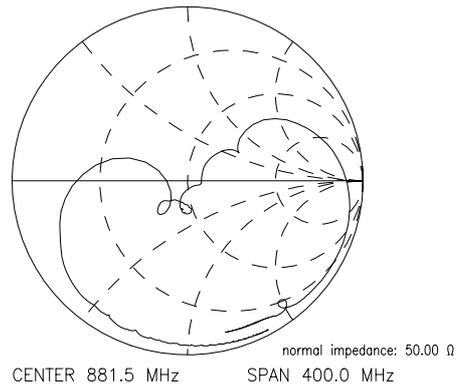
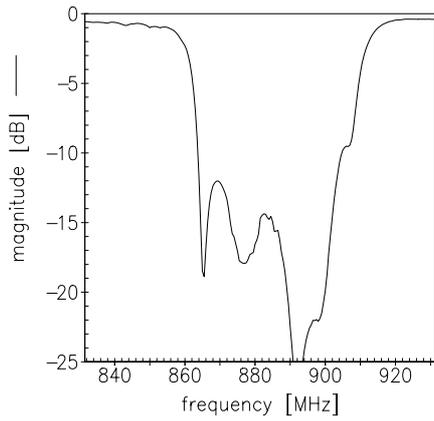


Reflection functions

S_{11}



S_{22}





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