EPCOS

SAW Components

Data Sheet B3836

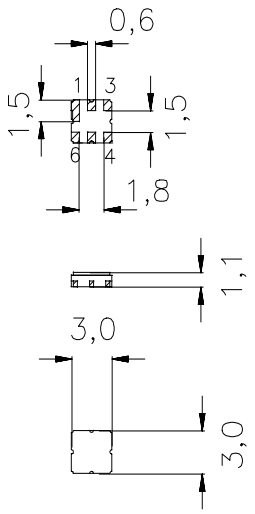
Ceramic package DCC6C

Features

- Low-loss RF filter (TX) for iDEN
- Usable bandwidth 19 MHz
- No matching required for operation at 50 Ω
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package

Terminals

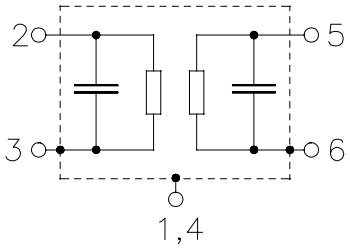
- Gold-plated



typ. Dimensions in mm, approx. weight 0,05 g

Pin configuration

2	Input
5	Output
1, 3, 4, 6	To be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B3836	B39821-B3836-U410	C61157-A7-A67	F61074-V8088-Z000

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

Maximum ratings

Operable temperature range	T_A	-30 / +85	˚C	
Storage temperature range	T_{stg}	-40 / +85	˚C	
DC voltage	V_{DC}	0	V	
Source power (cw)	P_s	7	dBm	source impedance 50 Ω

Data Sheet

Characteristics

Operating temperature range: T_A = 25 ± 2 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Nominal frequency	f_N	—	815,5	—	MHz
Maximum insertion attenuation	α_{max}				
806,0 MHz ... 825,0 MHz		—	2,7	3,0	dB
Group delay ripple (p-p)	$\Delta\tau$				
806,0 MHz ... 825,0 MHz		—	25	50	ns
Return loss (Input and Output)					
806,0 MHz ... 825,0 MHz		10,0	11,0	—	dB
Absolute attenuation	α_{abs}				
851,0 MHz ... 870,0 MHz		45	52	—	dB
935,0 MHz ... 940,0 MHz		45	48	—	dB
960,65 MHz ... 979,65 MHz		42	46	—	dB
1115,30 MHz ... 1134,30 MHz		40	45	—	dB
1269,95 MHz ... 1288,95 MHz		35	45	—	dB
1612,00 MHz ... 1650,00 MHz		25	32	—	dB
1650,00 MHz ... 2600,00 MHz		25	27	—	dB
Temperature coefficient of frequency	TC_f	—	– 36	—	ppm/K

Data Sheet

Characteristics

Operating temperature range: T_A = -30 ... +70 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Nominal frequency	f_N	—	815,5	—	MHz
Maximum insertion attenuation	α_{max}				
806,0 MHz ... 825,0 MHz		—	3,1	3,7	dB
Group delay ripple (p-p)	$\Delta\tau$				
806,0 MHz ... 825,0 MHz		—	25	50	ns
Return loss (Input and Output)					
806,0 MHz ... 825,0 MHz		10,0	11,0	—	dB
Absolute attenuation	α_{abs}				
851,0 MHz ... 870,0 MHz		45	52	—	dB
935,0 MHz ... 940,0 MHz		45	48	—	dB
960,65 MHz ... 979,65 MHz		42	46	—	dB
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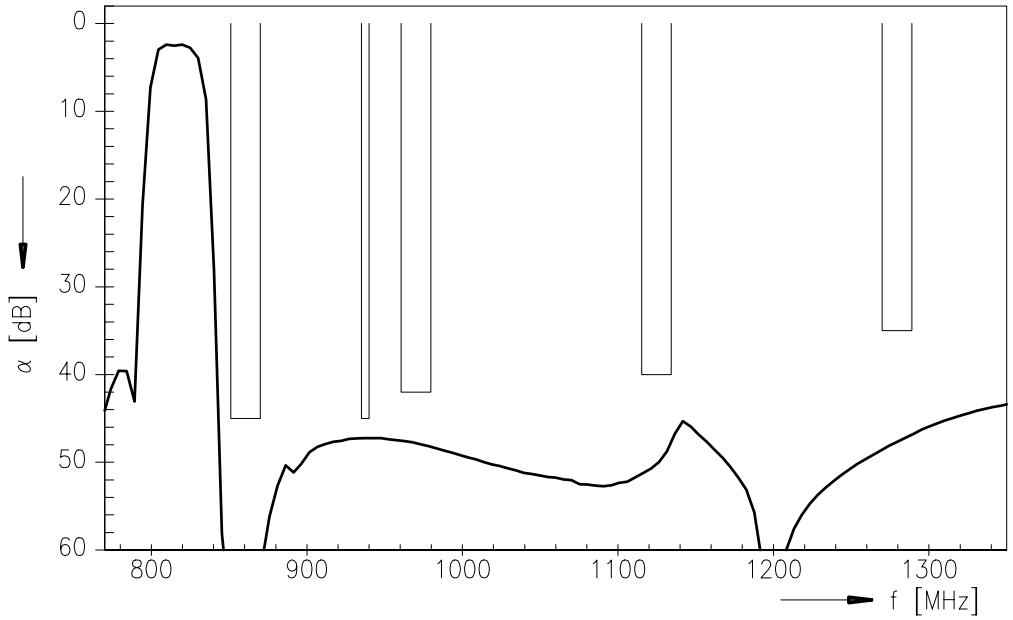
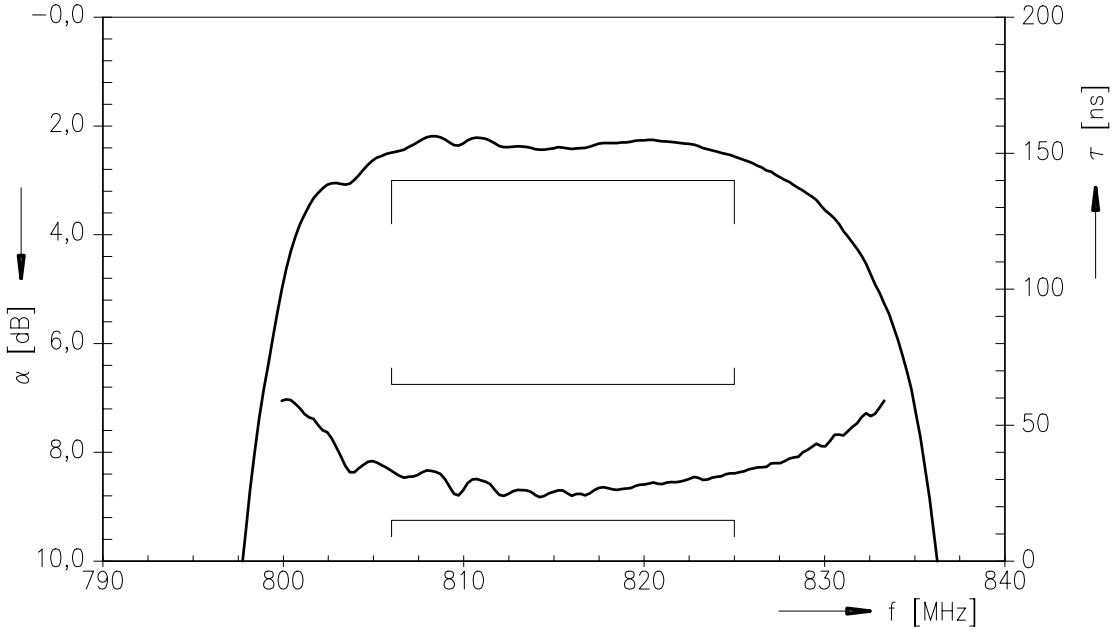
1650,00 MHz ... 2600,00 MHz		25	27	—	dB
Temperature coefficient of frequency	TC_f	—	– 36	—	ppm/K

Transfer function



Transfer function (pass band)



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This brochure replaces the previous edition.

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