EPCOS

SAW Components

Data Sheet B3857

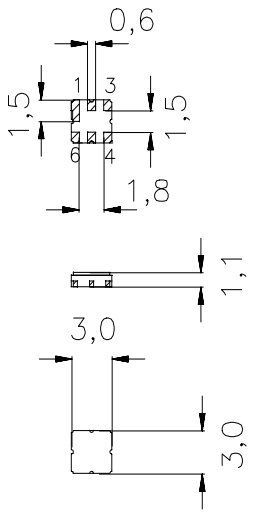
Ceramic package DCC6C

Features

- Low-loss RF filter for TETRA phone
- Usable bandwidth 5 MHz
- No matching required for operation at 50 Ω
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package

Terminals

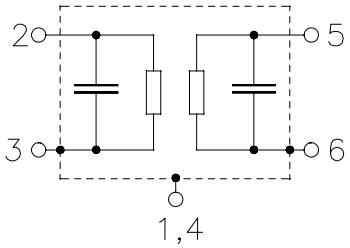
- Gold-plated



typ. Dimensions in mm, approx. weight 0,037 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
B3857	B39921-B3857-U410	C61157-A7-A67	F61074-V8088-Z000

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

Maximum ratings

Operable temperature range	T_A	-35 / +85	˚C	
Storage temperature range	T_{stg}	-40 / +85	˚C	
DC voltage	V_{DC}	0	V	
Source power (cw)	P_s	6	dBm	source impedance 50 Ω

Data Sheet

Characteristics

Operating temperature range: T_A = 25 ± 10 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Nominal frequency	f_N	—	919,5	—	MHz
Maximum insertion attenuation	α_{max}				
917,0 MHz ... 922,0 MHz		—	1,7	2,8	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
917,0 MHz ... 922,0 MHz		—	0,1	1,0	dB
Group delay ripple (p-p)	$\Delta\tau$				
917,0 MHz ... 922,0 MHz		—	10	30	ns
Return loss (Input and Output)					
917,0 MHz ... 922,0 MHz		11,0	15,0	—	dB
Absolute attenuation	α_{abs}				
0,1 MHz ... 895,0 MHz		12	40	—	dB
932,0 MHz ... 937,0 MHz		10	13	—	dB
937,0 MHz ... 942,0 MHz		14	23	—	dB
942,0 MHz ... 947,0 MHz		18	28	—	dB
947,0 MHz ... 2000,0 MHz		26	29	—	dB
2000,0 MHz ... 4000,0 MHz		15	28	—	dB
Temperature coefficient of frequency	TC_f	—	– 36	—	ppm/K

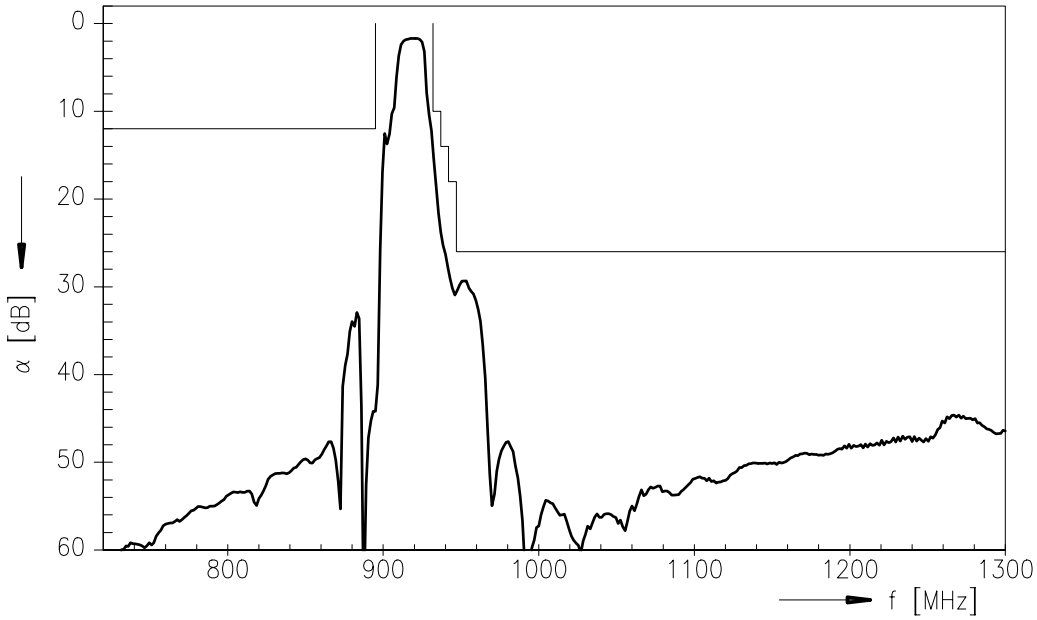
Data Sheet

Characteristics

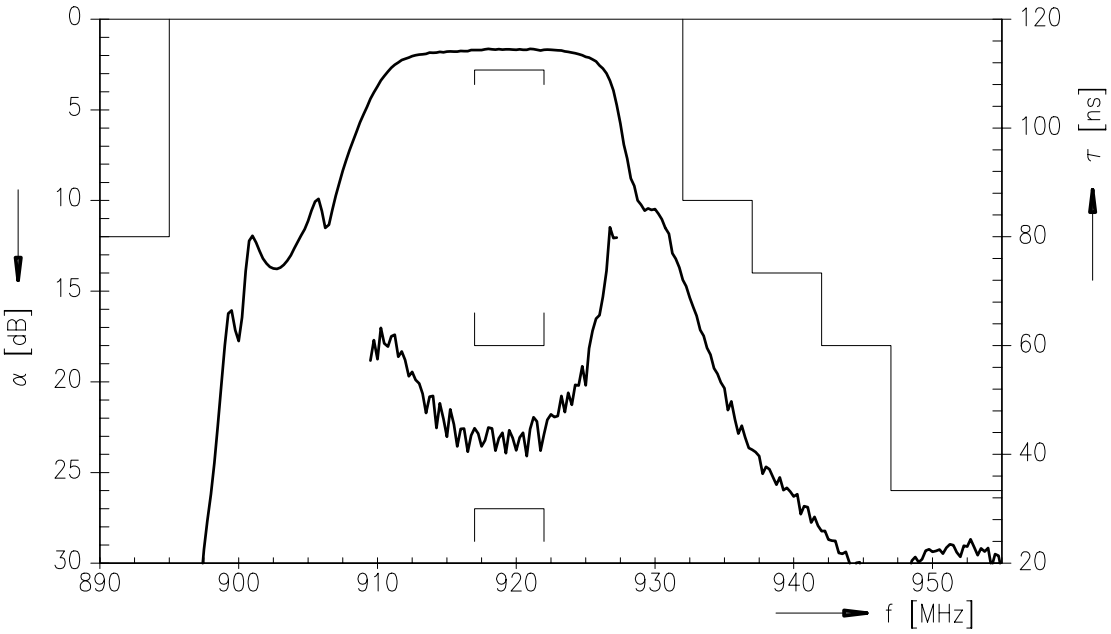
Operating temperature range: T_A = -30 ... +75 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Nominal frequency	f_N	—	919,5	—	MHz
Maximum insertion attenuation	α_{max}				
917,0 MHz ... 922,0 MHz		—	1,9	3,4	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
917,0 MHz ... 922,0 MHz		—	0,2	1,3	dB
Group delay ripple (p-p)	$\Delta\tau$				
917,0 MHz ... 922,0 MHz		—	15	30	ns
Return loss (Input and Output)					
917,0 MHz ... 922,0 MHz		10,0	15,0	—	dB
Absolute attenuation	α_{abs}				
0,1 MHz ... 895,0 MHz		10	35	—	dB
932,0 MHz ... 937,0 MHz		8	10	—	dB
937,0 MHz ... 942,0 MHz		12	21	—	dB
942,0 MHz ... 947,0 MHz		15	27	—	dB
947,0 MHz ... 2000,0 MHz		26	29	—	dB
2000,0 MHz ... 4000,0 MHz		15	28	—	dB
Temperature coefficient of frequency	TC_f	—	– 36	—	ppm/K

Transfer function



Transfer function (pass band, 25 ± 10 °C)



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