EPCOS

SAW Components

Data Sheet B3675

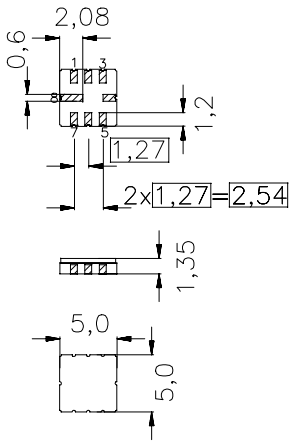
Ceramic package QCC8C

Features

- Low-loss filter (TX) for TETRA
- Usable bandwidth 10 MHz
- No matching required for operation at 50 Ω
- Package for Surface Mounted Technology (SMT)
- Hermetically sealed ceramic package

Terminals

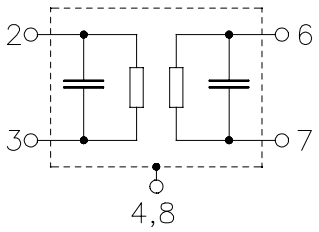
- Gold-plated



typ. Dimensions in mm, approx. weight 0,10 g

Pin configuration

2	Input
3	Input ground
6	Output
7	Output ground
1, 5	Ground
4, 8	Case ground



Type	Ordering code	Marking and Package according to	Packing according to
B3675	B39421-B3675-U310	C61157-A7-A56	F61074-V8070-Z000

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

Maximum ratings

Operable temperature range	T_A	-40 / +80	˚C	
Storage temperature range	T_{stg}	-40 / +85	˚C	
DC voltage	V_{DC}	0	V	
Source power	P_s	15	dBm	source impedance 50 Ω

Data Sheet

Characteristics

Operating temperature range: T_A = -10 ... +60 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

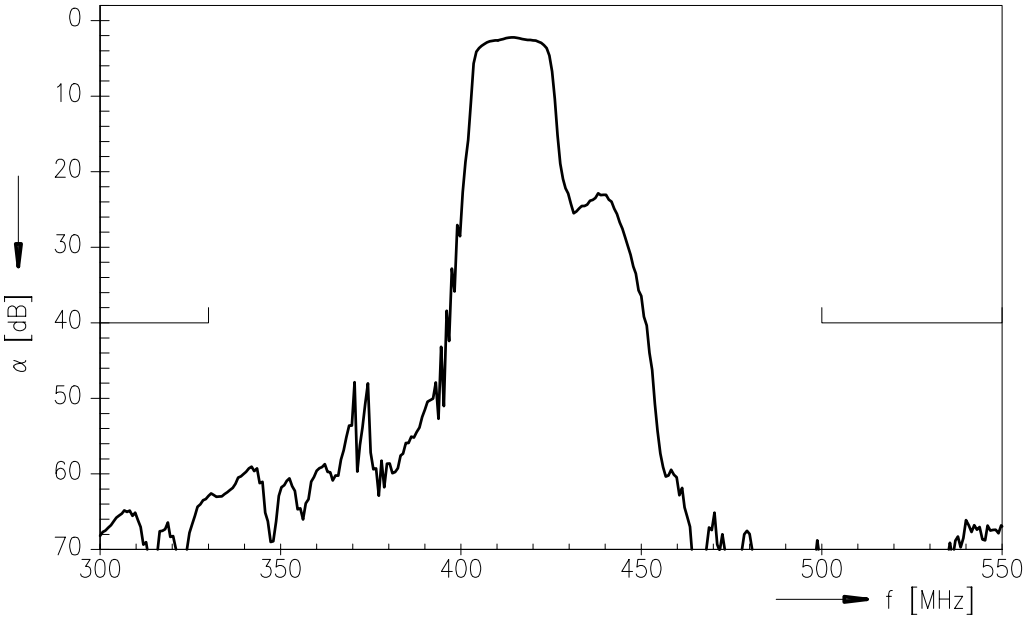
		min.	typ.	max.	
Nominal frequency	f_N	—	415,0	—	MHz
Maximum insertion attenuation	α_{max}				
410,0 MHz ... 420,0 MHz		—	2,5	4,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
410,0 MHz ... 420,0 MHz		—	0,45	1,0	dB
VSWR					
410,0 MHz ... 420,0 MHz		—	1,4:1	2,0:1	
Absolute attenuation	α_{abs}				
0,3 MHz ... 330,0 MHz		40	60	—	dB
500,0 MHz ... 840,0 MHz		40	50	—	dB
840,0 MHz ... 1260,0 MHz		20	35	—	dB
Temperature coefficient of frequency	TC_f	—	– 70	—	ppm/K

Characteristics

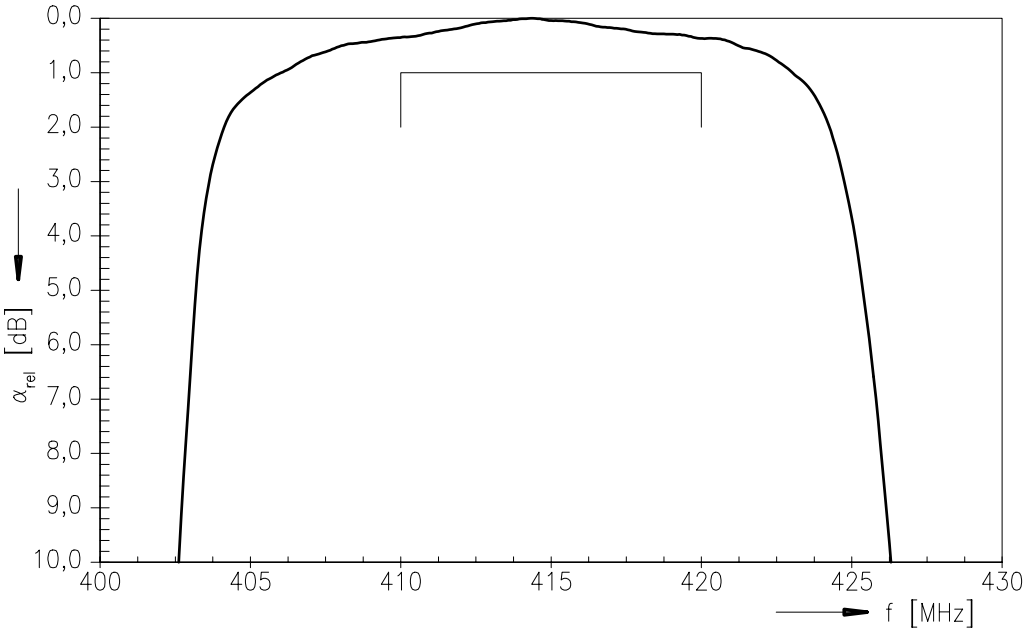
Operating temperature range: T_A = -40 ... +80 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Nominal frequency	f_N	—	415,0	—	MHz
Maximum insertion attenuation	α_{max}				
410,0 MHz ... 420,0 MHz		—	3,0	5,0	dB
Amplitude ripple (p-p)	$\Delta\alpha$				
410,0 MHz ... 420,0 MHz		—	0,6	2,0	dB
VSWR					
410,0 MHz ... 420,0 MHz		—	1,4:1	2,0:1	
Absolute attenuation	α_{abs}				
0,3 MHz ... 330,0 MHz		40	60	—	dB
500,0 MHz ... 840,0 MHz		40	50	—	dB
840,0 MHz ... 1260,0 MHz		20	35	—	dB
Temperature coefficient of frequency	TC_f	—	– 70	—	ppm/K

Transfer function



Transfer function (pass band; -10 ˚C ... +60 ˚C)



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