EPCOS

SAW Components

Data Sheet B5027

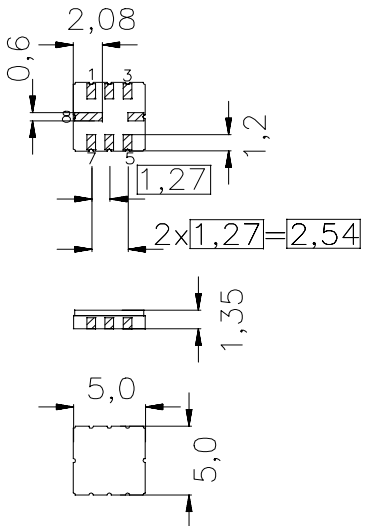
Ceramic package **QCC8C**

Features

- Low-loss RF filter for CDMA450 base stations
- Usable passband 7,475 MHz
- Ceramic SMD package
- RoHS compliant

Terminals

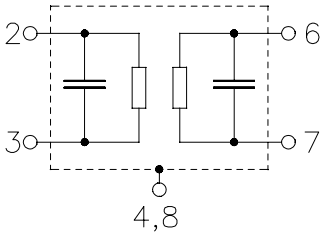
- Gold plated



Dimensions in mm, approx. weight 0,116 g

Pin configuration

3	Input
2	Input ground
7	Output
6	Output ground
4, 8	Case ground
1, 5	to be grounded



Type	Ordering code	Marking and Package according to	Packing according to
B5027	B39461-B5027-U310	C61157-A7-A56	F61074-V8169-Z000

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

Maximum ratings

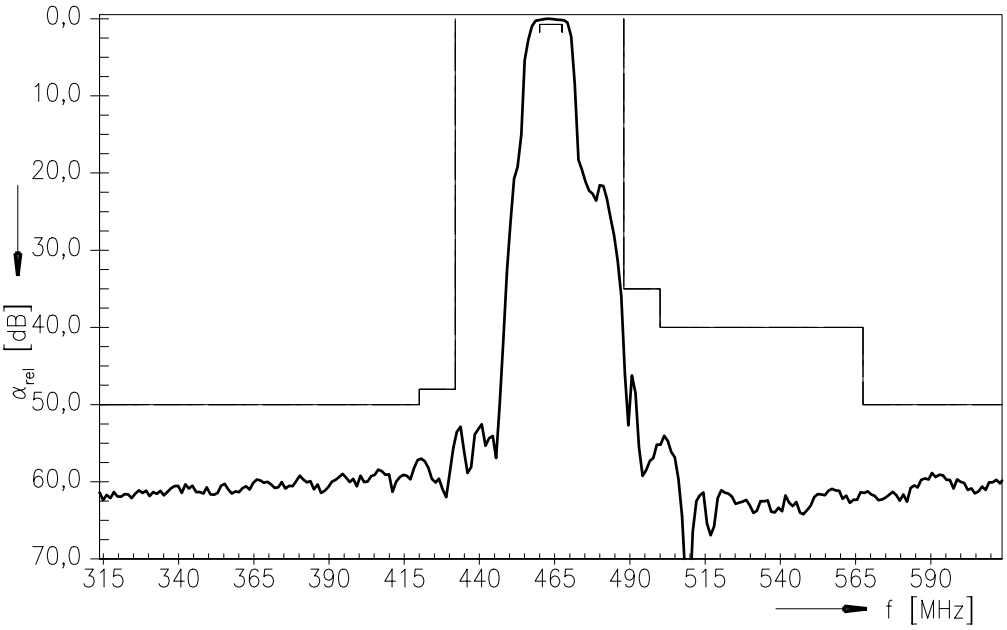
Operable temperature range	T	-40/ +85	˚C	
Storage temperature range	T_{stg}	-40/ +85	˚C	
DC voltage	V_{DC}	5	V	
Source power	P_s	15	dBm	

Characteristics

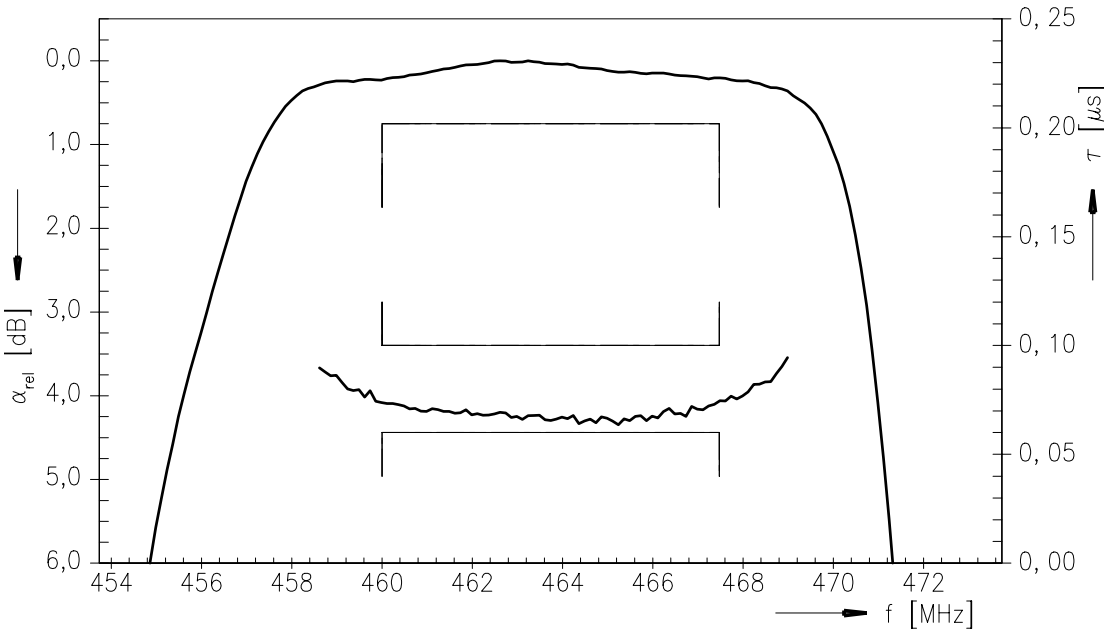
Operating temperature: T = 0 ... 80 °C
Terminating source impedance: Z_S = 50 Ω
Terminating load impedance: Z_L = 50 Ω

		min.	typ.	max.	
Nominal frequency	f_N	—	463,7375	—	MHz
Insertion attenuation @f_N	α_N	—	2,0	3,0	dB
Pass bandwidth	$B_{1,0dB}$				
$\alpha_{rel} \leq$ 1,0 dB		—	12,5	—	MHz
Amplitude ripple (p-p)	$\Delta\alpha$				
460,000 MHz...467,475 MHz		—	0,5	0,75	dB
Group delay ripple (p-p)	$\Delta\tau$				
460,000 MHz...467,475 MHz		—	25	40	ns
over any 1.25MHz contiguous bandwidth					
Phase linearity (rms) $f_N \pm$ 3,7375 MHz	$\Delta\tau$				
over any 1.25MHz contiguous bandwidth		—	1,1	2,0	°
Return Loss					
460,000 MHz...467,475 MHz		10	15	—	dB
Relative attenuation (relative to α_N)	α_{rel}				
20,000 MHz ... 420,000 MHz		50	56	—	dB
420,000 MHz ... 432,000 MHz		48	53	—	dB
488,000 MHz ... 500,000 MHz		35	40	—	dB
500,000 MHz ... 567,520 MHz		40	54	—	dB
567,520 MHz ... 675,040 MHz		50	52	—	dB
675,040 MHz ... 682,515 MHz		55	57	—	dB
682,515 MHz ... 1200,000 MHz		40	43	—	dB
1200,000 MHz ... 1724,985 MHz		35	40	—	dB
Temperature coefficient of frequency	TC_f	—	– 36	—	ppm/K

Normalized frequency response



Normalized frequency response (pass band)



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This brochure replaces the previous edition.

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