



SAW Components

Data Sheet B5027





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B5027

Low-Loss Filter

463,7375 MHz

Data Sheet

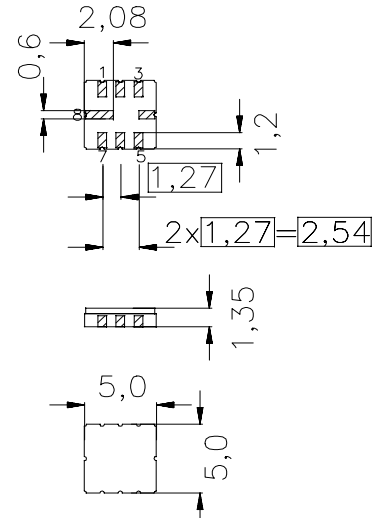
Ceramic package QCC8C

Features

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

Terminals

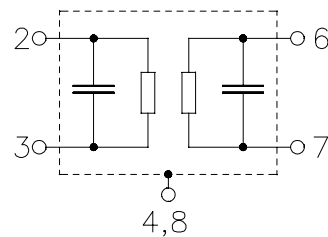
- Gold plated



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 Sensitive Device (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



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Characteristics

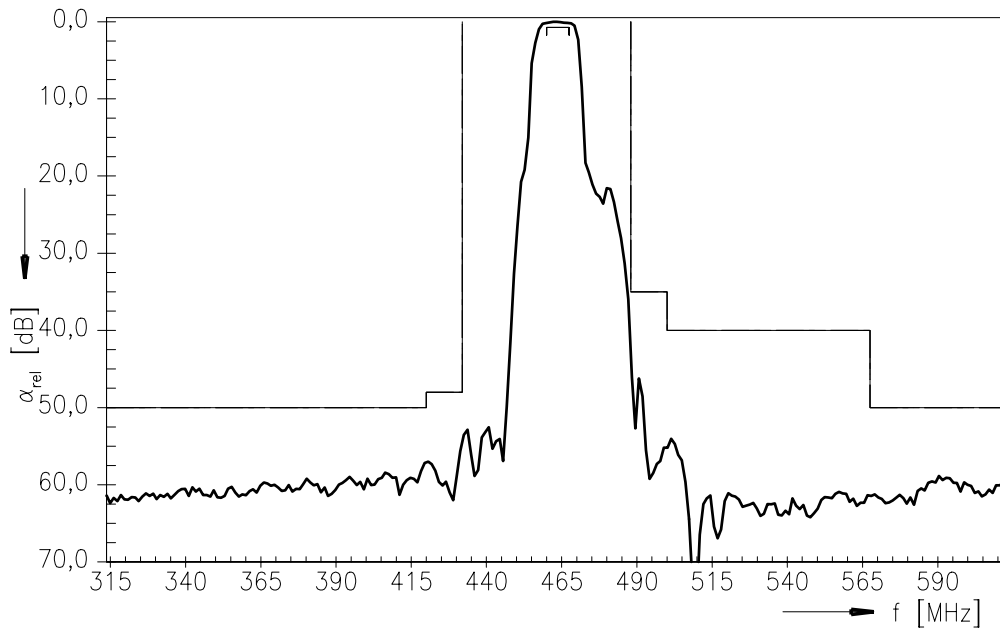
Operating temperature: $T = 0 \dots 80 \text{ }^\circ\text{C}$
 Terminating source impedance: $Z_S = 50 \text{ } \Omega$
 Terminating load impedance: $Z_L = 50 \text{ } \Omega$

			min.	typ.	max.	
Nominal frequency	f_N		—	463,7375	—	MHz
Insertion attenuation	@ f_N	α_N	—	2,0	3,0	dB
Pass bandwidth		$B_{1,0\text{dB}}$				
		$\alpha_{\text{rel}} \leq 1,0 \text{ dB}$	—	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)		$f_N \pm 3,7375 \text{ MHz } \Delta\tau$				
	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

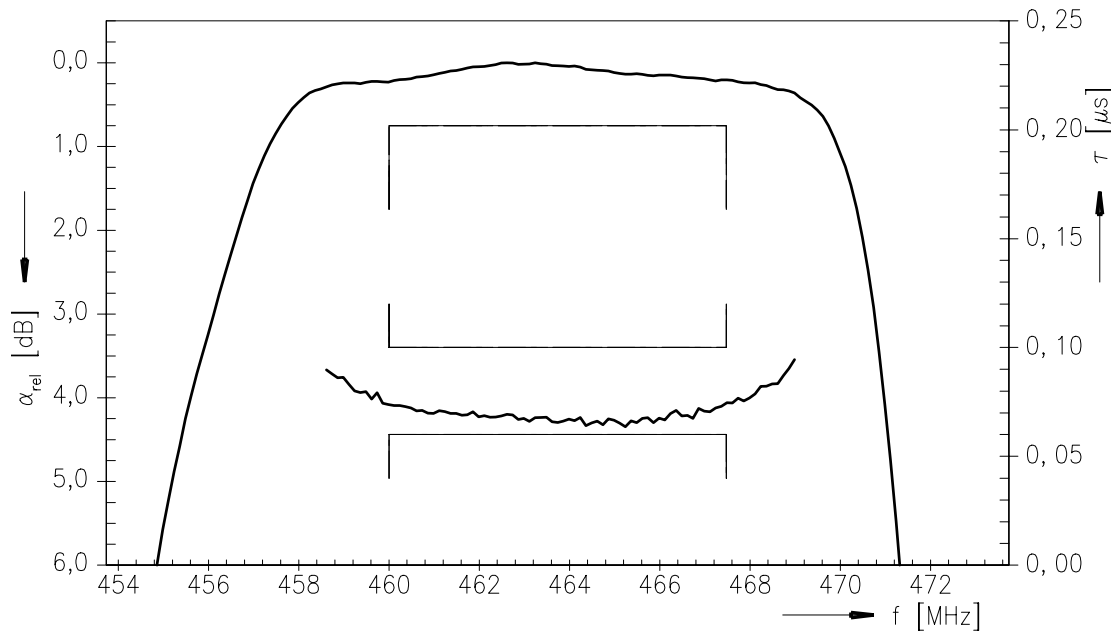


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Normalized frequency response



Normalized frequency response (pass band)





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