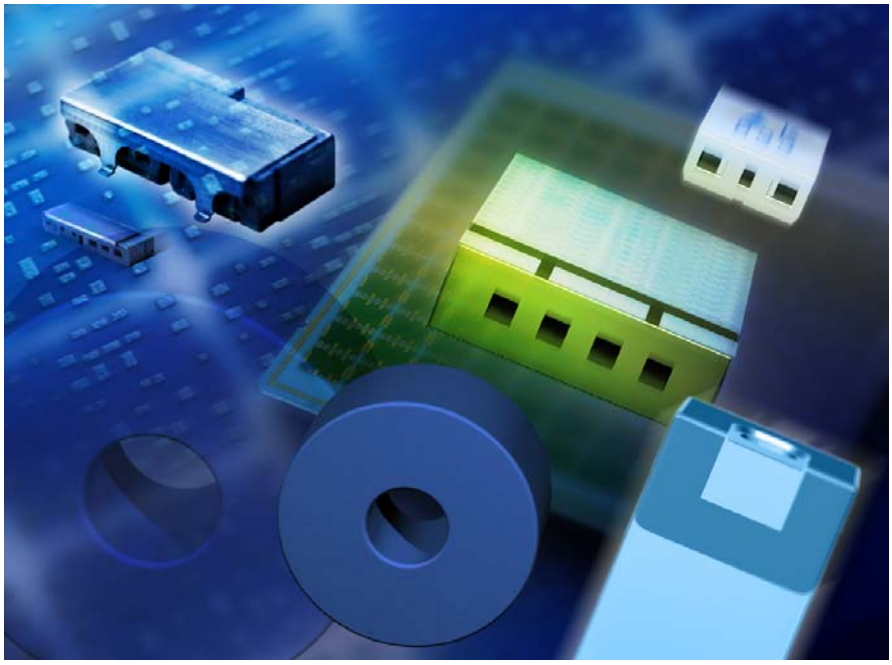
3-Pole Filter for PCN RX

B69813N1847K475

Preliminary Datasheet



Features

- SMD filter consisting of coupled resonators with stepped impedances
- (NdBa)TiO_3 (ε_r = 88 / TC_f =0±10 ppm/K) with a coating of copper (10µm) and tin (>5µm)
- Excellent reflow solderability, no migration effect due to copper/tin metallization

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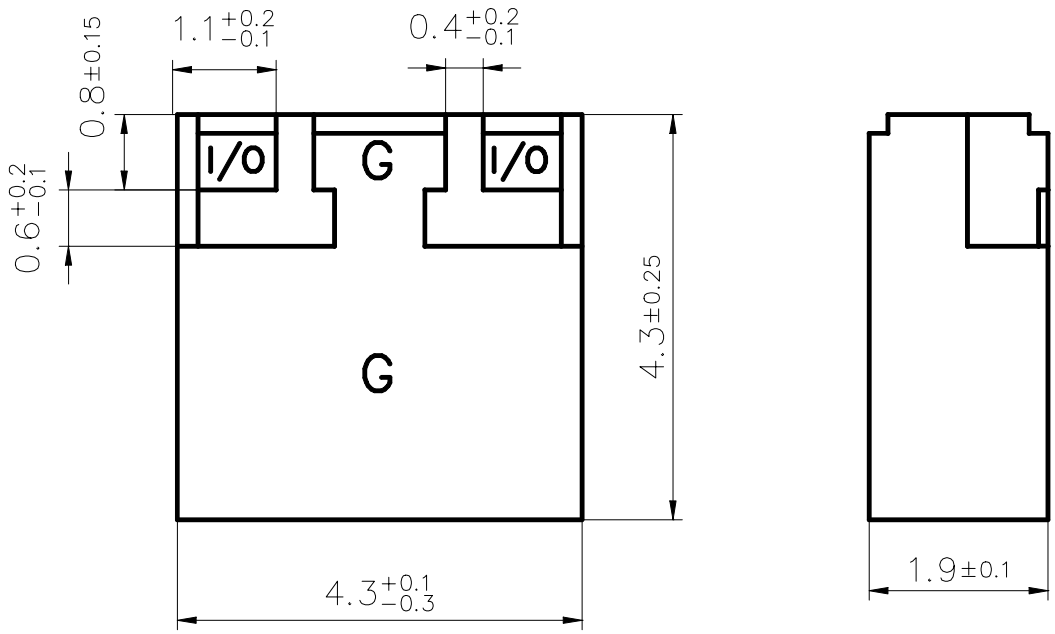
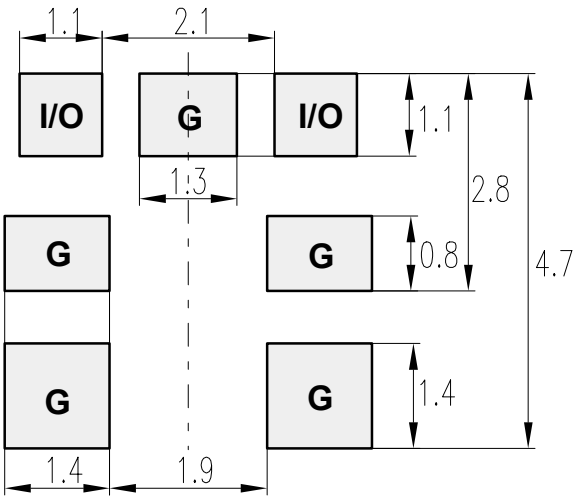
Preliminary Datasheet

Component drawing

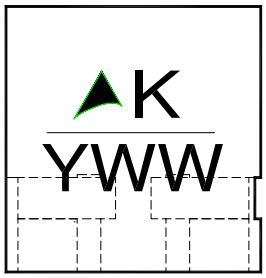


View from below onto the solder terminals and view from beside

Recommended footprint



Top view



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Preliminary Datasheet

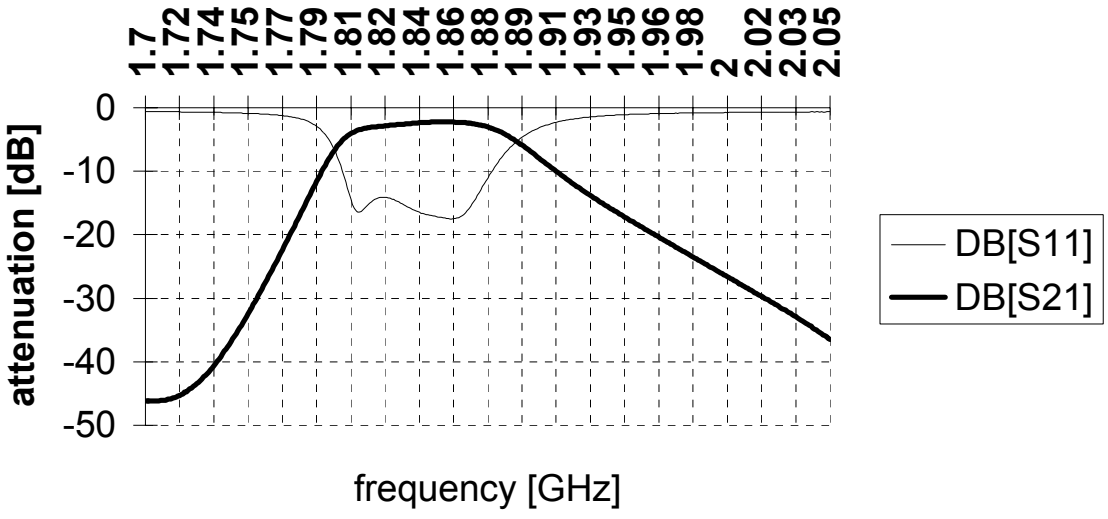
Characteristics (items marked with * must still be correlated to customer print, top surface may have additional contact to ground)

		min.	typ.	max.	
Center frequency	f_C	-	1842.5	-	MHz
Insertion loss	α_{IL}		3.5	3.7	dB
Passband	B	75			MHz
Amplitude ripple (peak - peak)	$\Delta\alpha$		1.5	2.0	dB
Standing wave ratio	SWR		1.5	2.2	
Impedance	Z		50		Ω
Attenuation	α				
at DC to 1430 MHz		38	45		dB
at 1430 to 1705 MHz		32	45		dB
at 1705 to 1785 MHz		13	14		dB
at 1920 to 1980 MHz		12	13		dB
at 1980 to 2400 MHz		20	28		dB
at 3975 to 4200 MHz		10	12		dB

Maximum ratings

IEC climatic category (IEC 68-1)		- 40/+ 90/56	
Operating temperature	T_{op}	- 20 / + 80	°C

Typical Passband Characteristics



Preliminary Datasheet

Processing information

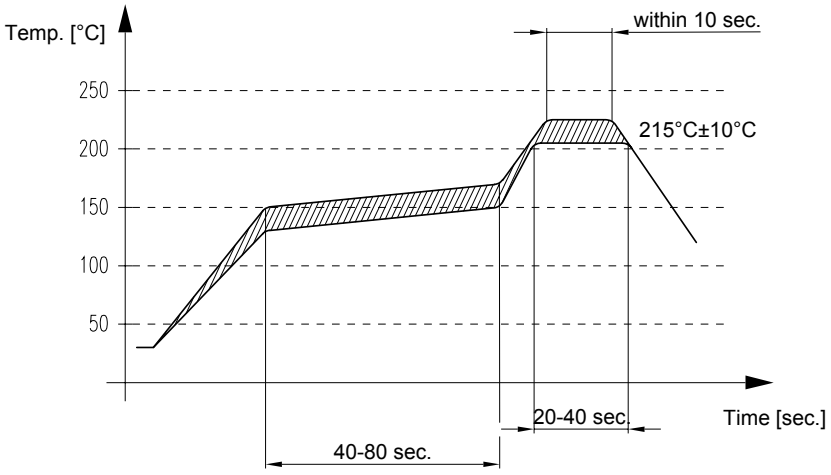
ZNr.: 551 (FILT95_2)

- Wettability to IEC 68-2-58: ≥ 75% (after aging)

Soldering requirements

Soldering type	reflow	
Maximum soldering temperature (measuring point on top surface of the component)	235 (max. 2 sec.) 225 (max. 10 sec.)	°C °C

Recommended soldering conditions (infrared):



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Marking

K475+Delivery Week

Delivery mode

- Blister tape acc. to IEC 286-3, polyester, grey
- Pieces/tape: 3000
- All components with type specific marking and Date Code (Year- Week of Year: 'YWW')