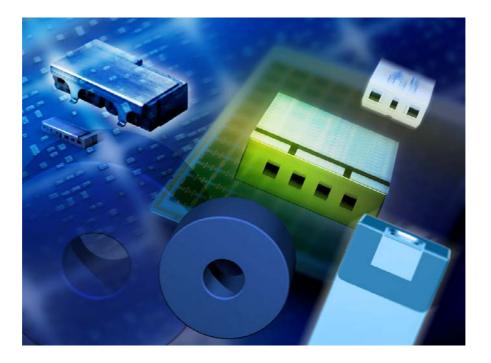


#### **3-Pole Filter for SIRIUS**

B69813N2327A414

Filter

**Data Sheet** 



#### Features

- SMD filter consisting of coupled resonators with stepped impedances
- (NdBa)TiO<sub>3</sub> ( $\varepsilon_r = 88 / TC_f = 0 \pm 10 \text{ ppm/K}$ ) with a coating of copper (10µm) and tin (>5µm)
- Excellent reflow solderability, no migration effect due to copper/tin metallization

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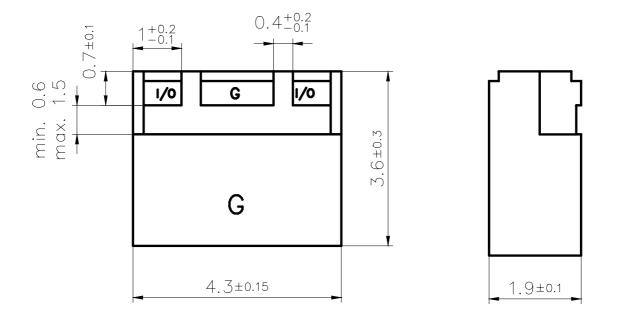
#### **3-Pole Filter for SIRIUS**

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Filter

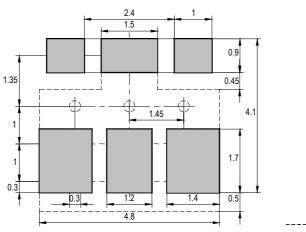
## Data Sheet

**Component drawing** 



View from below onto the solder terminals and view from beside

#### **Recommended footprint**



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#### **3-Pole Filter for SIRIUS**

### B69813N2327A414

°C

# Data Sheet

#### Characteristics

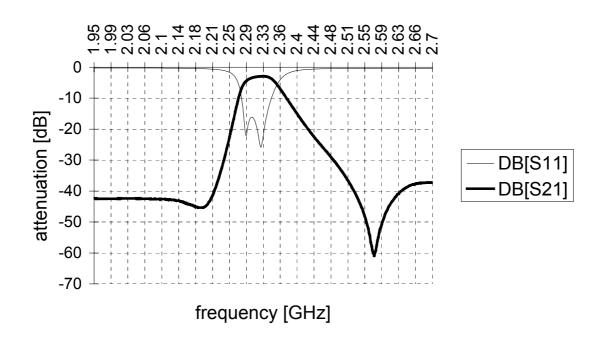
|                                  |                | min.     | typ.  | max. |     |
|----------------------------------|----------------|----------|-------|------|-----|
| Center frequency                 | f <sub>C</sub> | -        | 2326  | -    | MHz |
| Insertion loss                   | αιμ            |          | 2.7   | 3.0  | dB  |
| Passband                         | B              | 14       |       |      | MHz |
| Amplitude ripple (peak - peak)   |                |          | 0.3   | 0.5  | dB  |
| Standing wave ratio              | SWR            |          |       | 2.0  |     |
| Impedance                        | Ζ              |          | 50    |      | Ω   |
| Attenuation                      | α              |          |       |      |     |
| at DC to 2175 MHz                |                | 40       | 43    |      | dB  |
| at 2227 MHz                      |                | 30       | 37    |      | dB  |
| at 2400 MHz                      |                | 15       |       |      | dB  |
| at 2426 MHz                      |                | 20       | 23    |      | dB  |
| at 2500 MHz                      |                | 30       |       |      | dB  |
| at 2526 to 2700 MHz              |                | 35       | 37    |      | dB  |
| Maximum ratings                  |                |          |       |      |     |
| IEC climatic category (IEC 68-1) |                | - 40/+ 9 | 90/56 |      |     |

T<sub>op</sub>

-40 / +85

# Typical passband characteristic

Operating temperature



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#### Filter



#### **3-Pole Filter for SIRIUS**

**Data Sheet** 

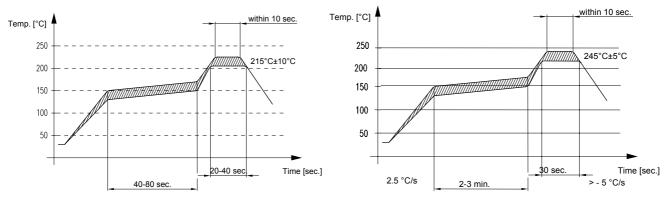
#### **Processing information**

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

#### **Soldering Requirements**

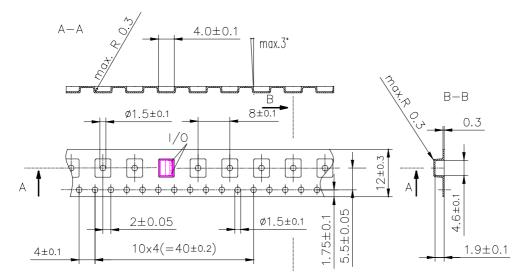
|   | Profile for eutectic<br>SnPb solder paste | Profile for leadfree solder paste |    |
|---|---|-----------------------------------|----|
| Soldering type                                    | reflow                                    | reflow                            |    |
| Maximum soldering temperature                     | 235 (max. 2 sec.)                         | 260 (max. 2 sec.)                 | °C |
| (measuring point on top surface of the component) | 225 (max. 10 sec.)                        | 250 (max. 10 sec.)                | °C |

#### Recommended soldering conditions (infrared):



#### **Delivery mode**

- Blister tape acc. to IEC 286-3, polyester, grey
- Pieces/tape: 3000



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Filter

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