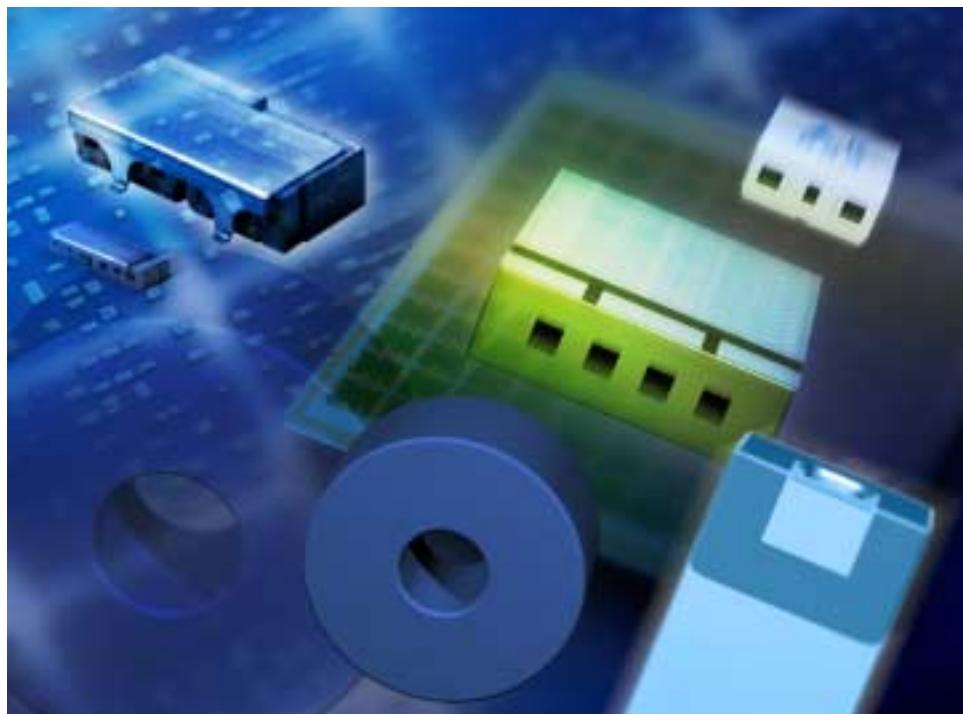


Preliminary datasheet

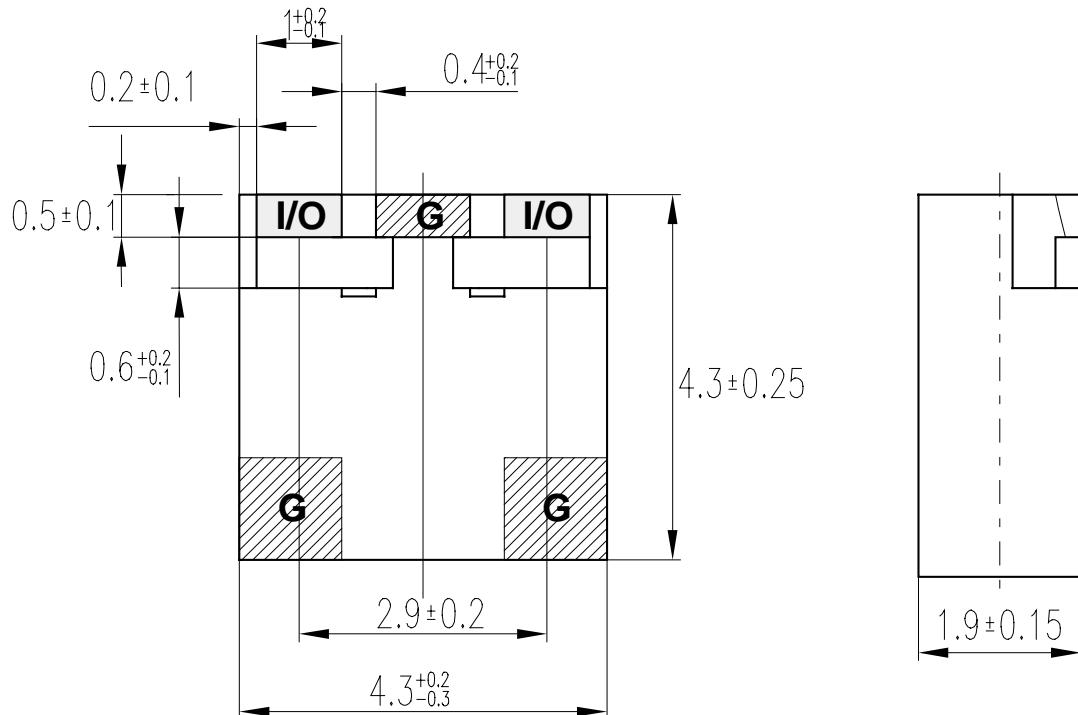


Features

- SMD filter consisting of coupled resonators with stepped impedances
- (NdBa)TiO₃ ($\epsilon_r = 88$ / $TC_f = 0 \pm 10$ ppm/K) with a coating of copper (10 μ m) and tin (>5 μ m)
- Excellent reflow solderability, no migration effect due to copper/tin metallization

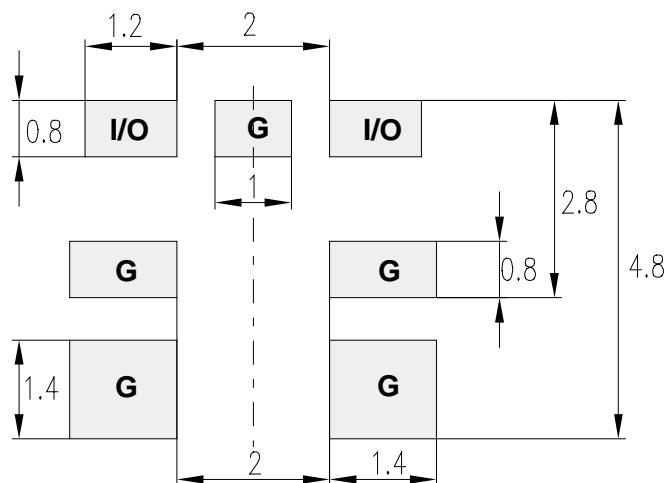
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| Page 3 | <ul style="list-style-type: none">● Characteristics● Maximum ratings● Typical passband characteristic |
| Page 4 | <ul style="list-style-type: none">● Processing information● Soldering requirements● Delivery mode |

Component drawing


View from below onto the solder terminals and view from beside

S3P251.DOC

Recommended footprint


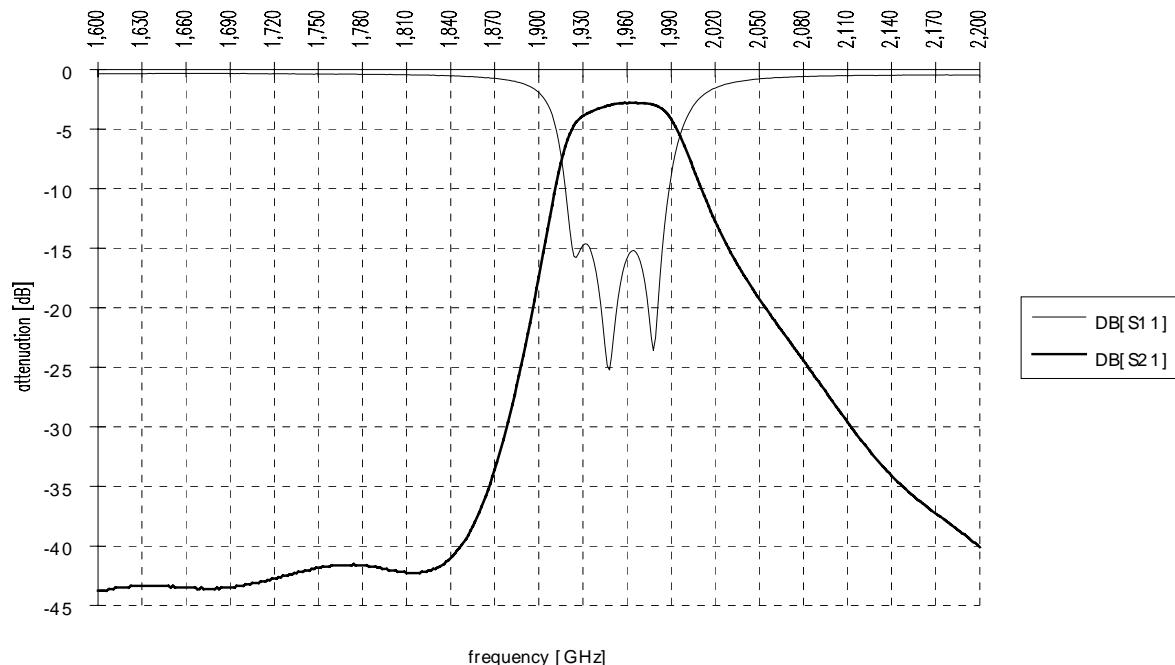
FPS3P251.DOC

Preliminary datasheet
Characteristics

| | | min. | typ. | max. | |
|--------------------------------|----------------|-------------|-------------|-------------|----------|
| Center frequency | f_c | - | 1960 | - | MHz |
| Insertion loss | α_{IL} | | 3.4 | 3.7 | dB |
| Passband | B | 60 | | | MHz |
| Amplitude ripple (peak - peak) | $\Delta\alpha$ | | 1.2 | 1.5 | dB |
| Standing wave ratio | SWR | | 1.6 | 2.2 | |
| Impedance | Z | | 50 | | Ω |
| Attenuation | α | | | | |
| at DC to 1800 MHz | | 35 | 40 | | dB |
| at 1910 MHz | | 10 | 11 | | dB |
| at 2010 MHz | | 9.0 | 9.5 | | dB |

Maximum ratings

| | | |
|----------------------------------|-----------------------|----|
| IEC climatic category (IEC 68-1) | - 40/+ 90/56 | |
| Operating temperature | T_{Top} - 20 / + 75 | °C |

Typical passband characteristic


S3P2512_2-DOC

Microwave Ceramics and Modules
3-Pole Filter for PCS RX

Product type

B69813N1967F460

Preliminary datasheet

Processing information

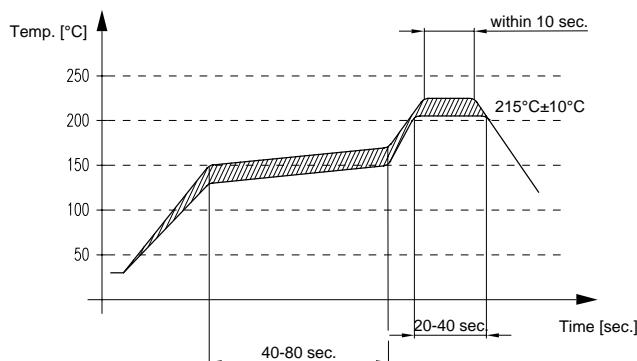
ZNr.: 600 (FILT95_2)

- Wettability to IEC 68-2-58: $\geq 75\%$ (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):

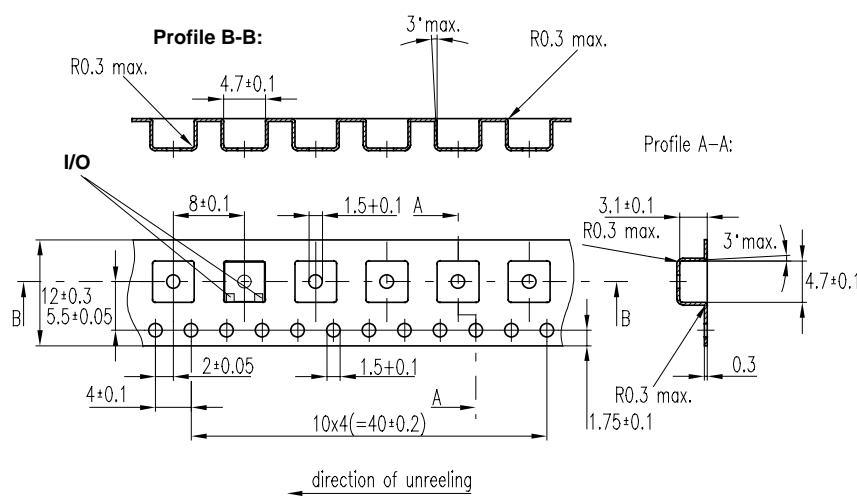


LOETPROF.DOC

Delivery mode

- Blister tape to IEC 286-3, PS, grey
- Pieces/tape: 3000

Reel: diameter - 330 mm



TAPS3P2.DOC

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The information contained in this data sheet describes the type of component and shall not be considered as guaranteed characteristics. Purchase orders are subject to the General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry recommended by the ZVEI (German Electrical and Electronic Manufacturers' Association), unless otherwise agreed.

| | | | | | | | |
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