

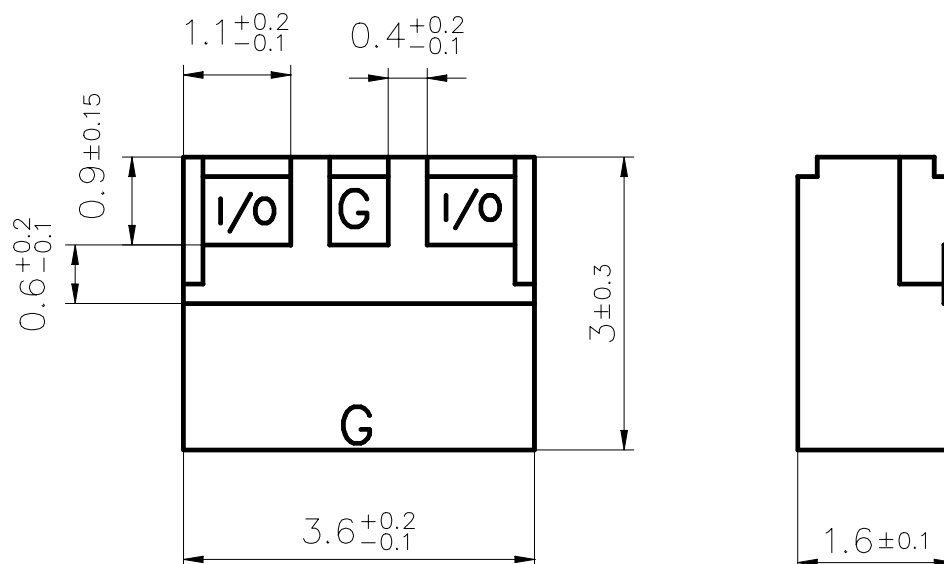
Features

- SMD filter consisting of coupled resonators with stepped impedances
- extreme low losses
- high attenuations at GSM (900, 1800, 1900) bands
- stable performance over wide temperature range
- excellent reflow solderability, no migration effect due to copper/tin metallization

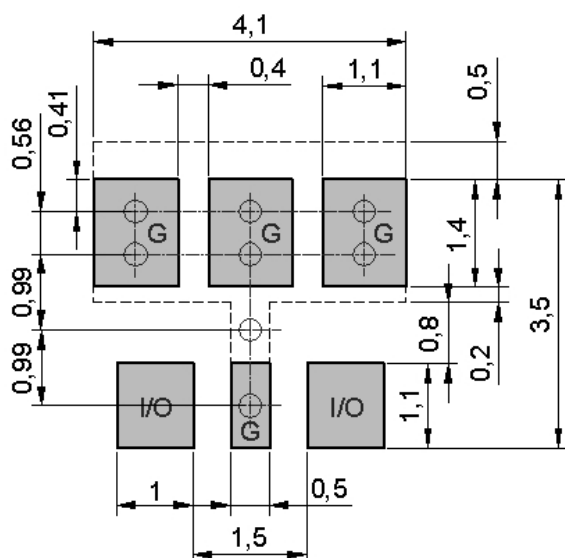
Index

- | | |
|--------|---|
| Page 2 | <ul style="list-style-type: none"> • Component drawing • Recommended footprint |
| 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 |

| | | | | | | | |
|------------|----------|-------|---|-----------|--------------|------|-----|
| ISSUE DATE | 19.08.03 | ISSUE | A | PUBLISHER | SAW MWC PD F | PAGE | 1/4 |
|------------|----------|-------|---|-----------|--------------|------|-----|

Datasheet
Component drawing


View from below onto the solder terminals and view from beside

Recommended footprint

Top view and marking


Y : year
WW : week



soldered areas

I/O Pads must be terminated with
50 Ω characteristic impedance

| | | | | | | | |
|------------|----------|-------|---|-----------|--------------|------|-----|
| ISSUE DATE | 19.08.03 | ISSUE | A | PUBLISHER | SAW MWC PD F | PAGE | 2/4 |
|------------|----------|-------|---|-----------|--------------|------|-----|

Datasheet

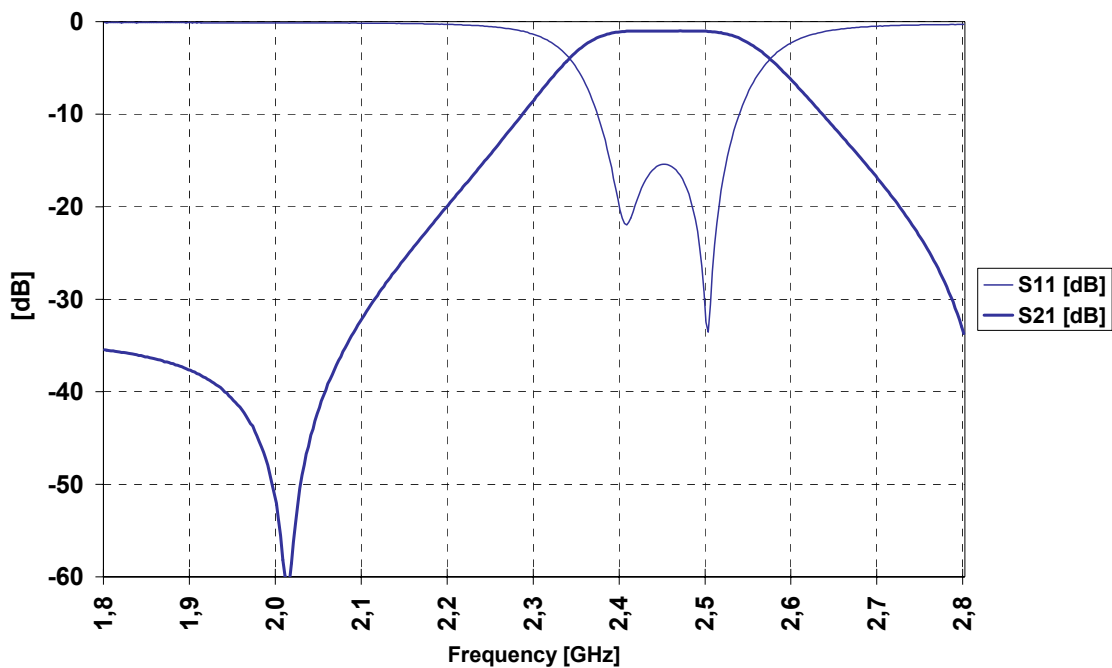
Characteristics over whole temperature range

| | | min. | typ. | max. | |
|---------------------------------|---------------------|------|--------|------|----------|
| Center frequency | f_c | - | 2.4415 | - | GHz |
| Insertion loss (2400 – 2483MHz) | α_{IL} | | 0.8 | 1.2 | dB |
| Passband | B | 83 | | | MHz |
| Amplitude ripple (peak - peak) | $\Delta\alpha$ | | 0.4 | 0.8 | dB |
| Standing wave ratio | SWR | | 1.5 | 2.0 | |
| Impedance (2400 – 2483MHz) | Z | | 50 | | Ω |
| Attenuation | α | | | | |
| | at DC to 960 MHz | 42 | 46 | | dB |
| | at 960 to 1990 MHz | 32 | 35 | | dB |
| | at 2100 to 2170 MHz | 20 | 23 | | dB |

Maximum ratings

| | | | |
|----------------------------------|----------|--------------|----|
| IEC climatic category (IEC 68-1) | | - 40/+ 90/56 | |
| Operating temperature | T_{op} | - 40 / + 85 | °C |

Typical passband characteristic



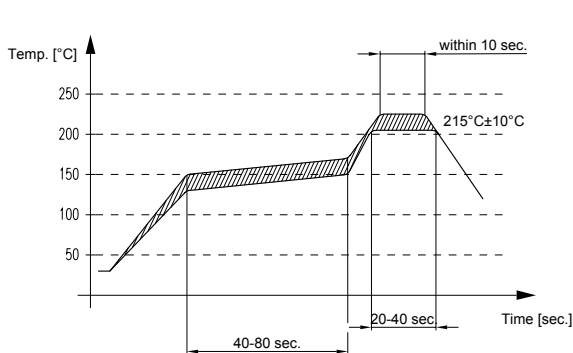
Datasheet
Processing information

ZNr.: 527 (FILT95_2)

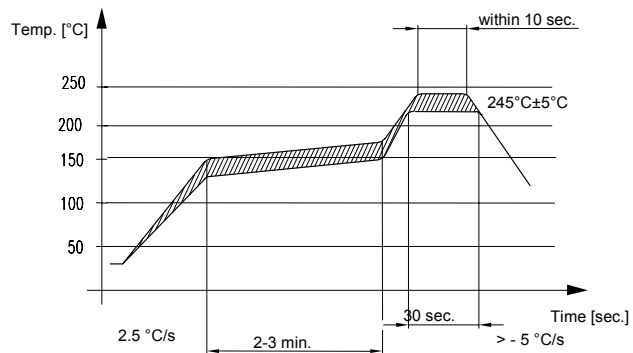
- Wettability to IEC 68-2-58: $\geq 75\%$ (after aging)

Soldering requirements

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

Recommended soldering conditions (infrared):


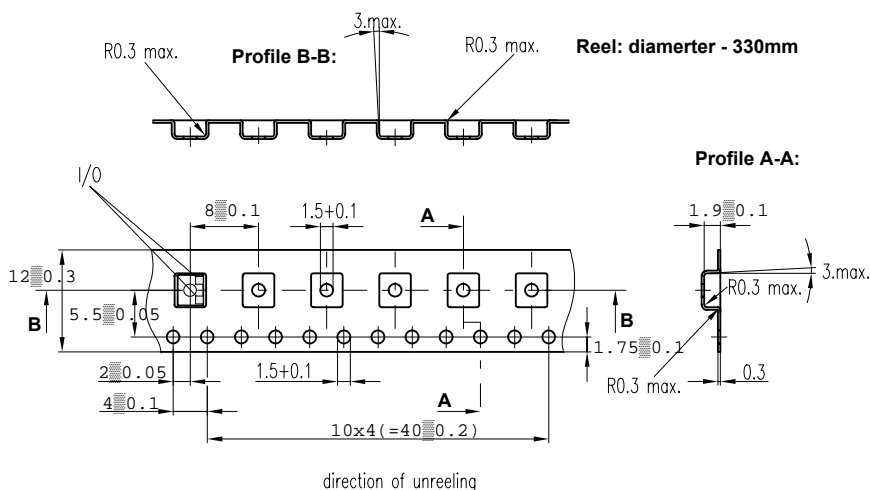
eutectic SnPb solder paste profile



leadfree solder paste profile

Delivery mode

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



© EPCOS AG 2001. All Rights Reserved. Reproduction, publication and dissemination of this data sheet, enclosures hereto and the information contained therein without EPCOS' prior express consent is prohibited.

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.

| | | | | | | | |
|------------|----------|-------|---|-----------|--------------|------|-----|
| ISSUE DATE | 19.08.03 | ISSUE | A | PUBLISHER | SAW MWC PD F | PAGE | 4/4 |
|------------|----------|-------|---|-----------|--------------|------|-----|