

Microwave Ceramics

Series/Type: A760

The following products presented in this data sheet are being withdrawn.

| Ordering Code | Substitute Product | Date of Withdrawal | Deadline Last Orders | Last Shipments |
|-----------------|--------------------|--------------------|-------------------------|----------------|
| B69967N2047A760 | B39212B7646B310 | 2008-01-25 | 2008-09-30 | 2008-12-31 |

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7-Pole Duplexer for WCDMA

Duplexer B69967N2047A760

Preliminary Data Sheet

Component drawing





y= calendar year w= calendar week e.g.: 427= calendar year 2004, calendar week 27

*depending in final pressing tool

View from below onto the solder terminals and view from beside

Recommended footprint



- will be fixed acc. to final pressing tool

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7-Pole Duplexer for WCDMA Preliminary Data Sheet

Characteristics Receiver

| | | min. | typ. | max. | |
|--------------------------------|-----------------|------|------|------|-----|
| Center frequency | f _C | - | 2140 | - | MHz |
| Insertion loss | αιΓ | | 1.3 | 1.6 | dB |
| Passband | В | 60 | | | MHz |
| Amplitude ripple (peak - peak) | $\Delta \alpha$ | | | 0.9 | dB |
| Standing wave ratio | SWR | | | 1.9 | |
| Impedance | Z | | 50 | | Ω |
| Power | P_{avg} | | | 0.8 | W |
| Attenuation | α | | | | |
| at DC to 1790 MHz | | 35 * | | | dB |
| at 1790 to 1920 MHz | | 30 | | | dB |
| at 1920 to 1980 MHz | | 50 | | | dB |
| at 1980 to 2025 MHz | | 20 | | | dB |
| at 4030 to 4150 MHz | | 23 * | | | dB |
| at 5950 to 6000 MHz | | 33 * | | | dB |
| | • | | • | • | • |

*depending on final pressing tool and final layout

Characteristics Transmitter

| | | min. | typ. | max. | |
|--|----------------|------|------|------|-----|
| Center frequency | f _C | - | 1950 | - | MHz |
| Insertion loss | αιΓ | | 1.1 | 1.4 | dB |
| Passband | В | 60 | | | MHz |
| Amplitude ripple (peak - peak) | Δα | | | 0.6 | dB |
| Standing wave ratio | SWR | | | 1.8 | |
| Impedance | Ζ | | 50 | | Ω |
| Power | P_{max} | | | 1.0 | W |
| Attenuation | α | | | | |
| at DC to 1000 MHz | | 40 | | | dB |
| at 2110 to 2170 MHz | | 42 | | | dB |
| at 2400 to 2550 MHz | | 40 | | | dB |
| at 3840 to 3960 MHz | | 33 * | | | dB |
| at 5760 to 5940 MHz | | 23 * | | | dB |
| *depending on final pressing tool and final layout | | | | | |

Isolation Tx – Rx

| | | | | | min | . typ. | m | ax. | |
|-------------|----------|---------------|----|--------|------|-----------|----|------|-----|
| Attenuation | | | | α | | | | | |
| | at 192 | 0 to 1980 MHz | | | 50 | | | | dB |
| | at 211 | 0 to 2170 MHz | | | 45 | | | | dB |
| | | | | | | | 1 | | |
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Duplexer

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7-Pole Duplexer for WCDMA Preliminary Data Sheet

Duplexer

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Maximum ratings

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

Typical passband characteristic



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7-Pole Duplexer for WCDMA Preliminary Data Sheet

Processing information

• 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) | | 260 (max. 2 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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Duplexer

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