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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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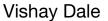
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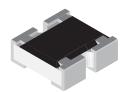




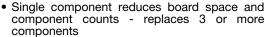




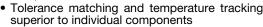
Thick Film Chip Attenuator, Surface Mount, Balanced π Type



FEATURES









Maximum power dissipation: 0.075 W for CZB06S

RoHS³
Available

- Consult factory for extended values, non-standard tolerances, impedance matching and other attenuation values
- Frequency range: DC to 3 GHz
- Surface mount chip attenuator in a resistor array package
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

Note

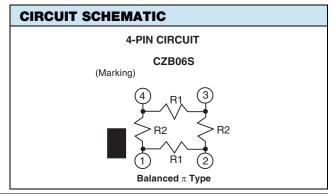
* This datasheet provides information about parts that are RoHS-compliant and/or parts that are non-RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information/tables in this datasheet for details.

| STANDARD ELECTRICAL SPECIFICATIONS | | | | | |
|------------------------------------|---------------------------------|-------------|---------------------------------|---------------|--|
| GLOBAL MODEL | POWER RATING P _{70 °C} | IIII EDATOL | ATTENUATION RANGE AND TOLERANCE | | |
| | W | | ± 0.5 dB (H) | | |
| CZB06S | 0.075 | 50/75 | 0 dB, 1 dB to 5 dB | 6 dB to 10 dB | |

Note

· Power rating depends on the maximum temperature at the solder point, the component placement density and the substrate material.

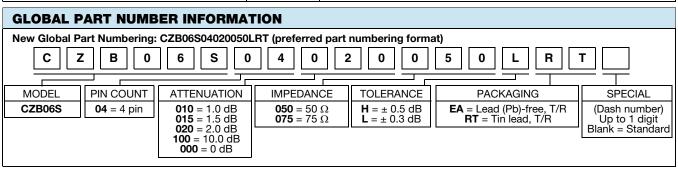
| IMPEDANCE | 50 Ω | 75 Ω |
|-----------------------|------|------|
| | 1 | 1 |
| | 1.5 | 1.5 |
| | 2 | 2 |
| Attenuation in dB (1) | 3 | 3 |
| Attenuation in db (1) | 4 | 4 |
| | 5 | 5 |
| | 6 | 6 |
| | 10 | 10 |



Note

(1) Consult factory for other attenuations.

| TECHNICAL SPECIFICATIONS | | | | |
|----------------------------|------|-------------|--|--|
| PARAMETER | UNIT | CZB06S | | |
| Rated dissipation at 70 °C | W | 0.075 | | |
| VSWR | | 1.2 max. | | |
| Category temperature range | °C | -55 to +150 | | |
| Frequency range | | DC to 3 GHz | | |



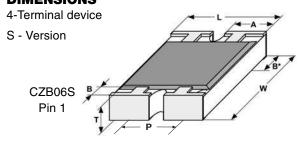
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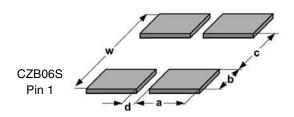
Revision: 14-May-14

• For additional information on packaging, refer to the Surface Mount Network Packaging document (www.vishay.com/doc?31540).



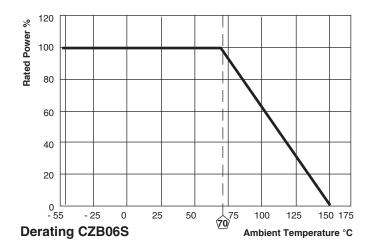
DIMENSIONS





| GLOBAL | DIMENSIONS in inches (millimeters) | | | | | | |
|--------|------------------------------------|--|--|--------------------------------|-----------------|------------------------------------|--|
| MODEL | L | W | Т | Α | Р | В | В* |
| CZB06S | 0.063 ± 0.006 (1.60 ± 0.15) | 0.059 ± 0.006 (1.50 ± 0.15) | 0.020 ± 0.004 (0.51 ± 0.10) | 0.024 ± 0.006 (0.61 ± 0.15) | 0.031 (0.80) | 0.012 ± 0.006 (0.30 ± 0.15) | 0.012 ± 0.006 (0.30 ± 0.15) |

| GLOBAL | SOLDER PAD DIMENSIONS in inches (millimeters) | | | | |
|--------|---|--------------|--------------|--------------|--------------|
| MODEL | С | w | d | а | b |
| CZB06S | 0.031 (0.80) | 0.122 (3.10) | 0.014 (0.36) | 0.025 (0.63) | 0.045 (1.15) |



| PERFORMANCE | | | | | |
|---|--|-----------------|----------------------------------|--|--|
| TEST | CONDITIONS OF TEST | TEST RESULTS (1 | TEST RESULTS (TYPICAL TEST LOTS) | | |
| 1231 | CONDITIONS OF TEST | 0.5 dB to 5 dB | 6 dB to 10 dB | | |
| Endurance test at 70 °C per EIA 575-3.14 | 1000 h at 70 °C, 1.5 h "ON", 0.5 h "OFF" | ± 0.2 dB | ± 0.3 dB | | |
| Overload per EIA 575-3.6 | Short time overload | ± 0.2 dB | ± 0.3 dB | | |
| Thermal shock | Per EIA 575-3.5 | ± 0.2 dB | ± 0.3 dB | | |
| Moisture resistance | Per EIA 575-3.10 | ± 0.2 dB | ± 0.3 dB | | |
| Resistance to soldering heat 10 s at 260 °C solder bath temperature EIA 575 3.8 | | ± 0.2 dB | ± 0.3 dB | | |
| High temperature exposure | Per EIA 575-3.7 | ± 0.2 dB | ± 0.3 dB | | |
| Low temperature operations | Per EIA-575-3.6 | ± 0.2 dB | ± 0.3 dB | | |
| Solderability and leaching | EIA 575-3.12 | 95 % coverage | | | |



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Vishay

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