

# New Product Announcement from ATC

## ATC Expands Case Size Range of Q-Bridge Thermal Conductor

June 21, 2017 Huntington Station, NY ----- ATC's has added a wide range of additional case sizes, extending from 1005 to 3737 to meet an extensive variety of applications. The entire range now includes twelve case sizes from 0302 to 3737. The full series has improved thermal performance with more robust construction, giving this product a competitive edge.

The Q-Bridge Thermal Conductor is manufactured with the highest quality materials for reliable and repeatable performance providing a cost-effective thermal management solution. These devices are constructed with Aluminum Nitride (AlN) or Beryllium Oxide (BeO). Q-Bridge provides the designer with ability to manage thermal conditions by directing heat to a thermal ground plane, heat sink or any other specific thermal point. The inherently low capacitance makes this device virtually transparent at RF / microwave frequencies. This device has the added benefit of offering additional layers of protection to adjacent components from hot spot thermal loads.

Q-Bridge provides the benefit of increased overall circuit reliability. ATC's Q-Bridge is manufactured using one-piece construction, providing a RoHS compliant SMT package that is fully compatible with high speed automated pick-and-place processing. Custom configurations are also available.

A data sheet for the Q-Bridge Thermal Conductor is available at:

<http://www.atceramics.com/UserFiles/Q-BRIDGE.pdf>.

### Functional Applications:

- Between active device and adjacent ground planes
- Specific contact pad to case
- Contact pad to contact pad
- Direct component contact to via pad or trace

### Features:

- High Thermal Conductivity
- Low Thermal Resistance
- Low Capacitance
- Increases Circuit Reliability
- RoHS Compliant
- More efficient thermal management
- Edges fully metalized

### Applications::

- GaN Power Amplifiers
- High RF Power Amplifiers
- Filters
- Synthesizers
- Industrial Computers
- Switch Mode Power Supplies
- Pin & Laser Diodes

To obtain samples and additional product information contact:

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