**Round Heat Pipe**

**ATS Part#:** ATS-HP-D3L150S12W-113

**Description:** Closed evaporator-condenser heat transfer systems. A heat pipe’s wick structure and embedded liquid enables it to produce a very high heat flux transport capability, which can be 10-20 times higher than the equivalent diameter solid copper pipe. Round heat pipes offer advantages for certain fin configurations at the condenser end.

**Features & Benefits**
- Tube material: copper
- Wick structures: grooved or sintered copper powder
- High thermal conductivity
- Light weight
- Fast thermal response

**Applications for Heat Pipes**
- Compact Electronics Enclosures
- Aerospace
- Medical
- Consumer Electronics
- HVAC

### Heat Pipe Joining Techniques
1) For small batches/prototypes, heat pipes can be joined to heat sinks or other pieces with thermal epoxy.

2) For optimal results, heat pipes should be soldered using low temperature solder at temperatures above 139°C but no greater than 250°C.

### Suggested Minimum Bend Radius on ATS Heat Pipes

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<th>Heat Pipe Diameter in mm</th>
<th>Minimum Bend Radius in mm</th>
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**For further technical information, please contact Advanced Thermal Solutions, Inc.**

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