

AMPIRE™



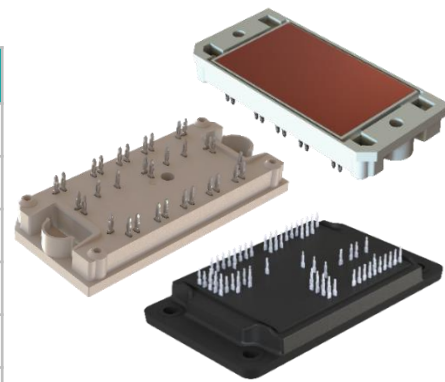
TEST CONTACTING SOLUTION (PATENT NO. ZL 2023 2 0938608.3) FOR HIGH-CURRENT APPLICATIONS

Revolutionizing IGBT testing with our latest product – Ampire, designed to meticulously assess and validate the performance of IGBT under high-current and high-voltage conditions.

Design Features

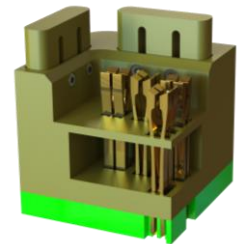
- ✓ Socket & plug concept
- ✓ Able to cater 0.50mm lead offset
- ✓ Kelvin doable under 0.50mm lead offset
- ✓ Suitable for high current application
- ✓ Minimalistic design concept

| Electrical Specifications | Ampire |
|-------------------------------------|---------------------------|
| Self Inductance (nH) | 5.05 |
| Mutual Inductance (nH) | 2.33 (Based on 1.3 Pitch) |
| Ground Capacitance (pF) | 0.56 |
| Mutual Capacitance (pF) | 0.73 (Based on 1.3 Pitch) |
| Contact Resistance (mΩ) | ≤ 70 |
| Current Carrying Capacity - CCC (A) | 12.2 |

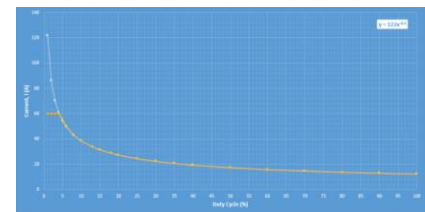


IGBT Modules

| Mechanical Specifications | Ampire | |
|---|----------------------------|-------|
| Pin Height (mm) | 14.60 | |
| Maximum Lead Offset Permissible (mm) | ≤ 0.50 | |
| Gram Force per Contact (g) | 15 per pin / 30 per kelvin | |
| Number of Insertion – Housing | 2M | |
| Number of Insertion by Device Lead Offset | ± 0.20mm | ~300k |
| | ± 0.30mm | ~100k |
| | ± 0.40mm | ~75k |
| | ± 0.50mm | ~50k |
| Operating temperature (°C) | - 60 to 180 | |
| Socket Material | Torlon® 5030 or equivalent | |
| Contact Pin Material | BeCu - NiAu | |



Ampire-kelvin Pins



Current Carrying Capacity (CCC) vs Duty Cycle

Note * : The stated specifications are based on JF Microtechnology's Laboratory Test; the results may vary subjected to the test environment conditions. Information furnished by JF Microtechnology is believed to be accurate and reliable. However, no responsibility is assumed by JF Microtechnology for its use, nor for any infringements of patents or other rights of third parties that may result from its use. Specifications subject to change without notice. No license is granted by implication or otherwise under any patent or patent rights of JF Microtechnology. Trademarks and registered trademarks are the property of their respective owners.

Sales & Service Representatives