JF Microtechnology Sdn Bhd
(A Subsidiary of JF Technology Berhad)

JFTECH
We Bring Possibilities

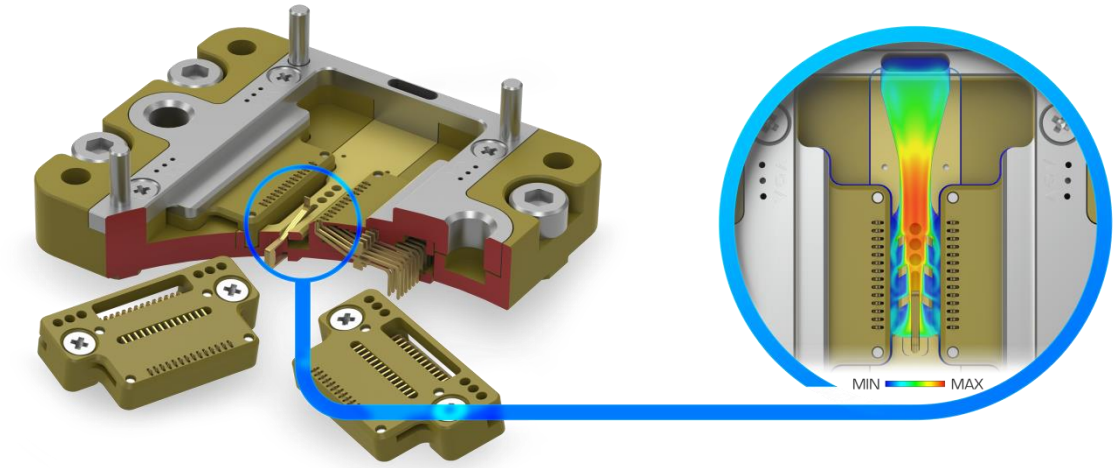
GAMMA™ FOR PRECISION TEMPERATURE TESTING

TEST CONTACTING SOLUTION (PATENT PENDING)

The industry's leading precision thermal contacting solution for Mixed-Signal & automotive ICs from mid to high power test applications with precise Kelvin contactor for Leaded & Leadless devices.

Gamma featuring a customize cantilever contact pin & proprietary housing design with compression-mount contactor; delivers high performance in electrical & mechanical specifications from the laboratory to final test floor.

Do You Need	Gamma Offers
Self cleaning	Scrubbing of ≈ 0.15mm (Kelvin)
Tri-temperature testing (-60°C to +180°C) with ±2°C thermal control	Reliable temperature test with single piece pin construction & proprietary housing design
Longer lifespan test solution	≥ 500K insertions (pin – on Matte Tin) ≥ 300K insertions (pin – on NiPd) ≥ 6M insertions (housing)
Sustainable 1st pass yield (FPY)	Longer MTBA, MTBR & MTBF
Loadboard friendly	No mechanical movement & wearing on loadboard
Lower cost of test (CoT)	Higher OEE
Replaceable components	Modular design for ease of maintenance



Package range : DFN, QFN, SOP, SOIC, MSOP, TQFP, QFP, etc.

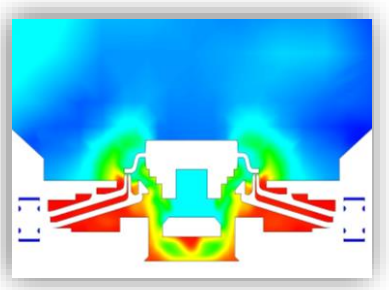
GAMMA™ TEST CONTACTING SOLUTION

Design Features

- ✓ ± 2°C thermal control
- ✓ 4 Amp CCC
- ✓ Module assembly
- ✓ Tri-Temperature testing of -60°C up to +180°C
- ✓ Contact forces down to 25g/pin
- ✓ Scrubbing Kelvin solution for ≥ 0.4mm pitch

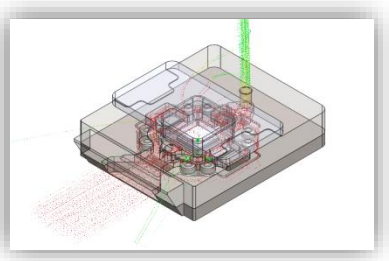
Electrical Specifications ①	Single Contact (Non-Kelvin)	Dual Contact (Kelvin)
Self Inductance (nH)	5.00	4.90
Resistance (mΩ)	≤ 30	≤ 10
Current Carrying Capacity - CCC (A) Duty Cycle 100%, 75%, 50%, 25%, 1% (300ms)	2.6, 3.1, 3.6, 6, 25.6	
Current Leakage (pA) @ 10V	≤ 1.0	

Mechanical Specifications	Gamma Inner	Gamma Outer
Physical Pin Length (mm)	12.54	13.44
Pin Uncompressed Height (mm)	5.09	
Pin Compliance (mm)	0.20	
Pin Wiping Length/pin (mm)	< 0.10	
Gram Force Per Pin (g)	20 ~ 30	10 ~ 15
Number of Insertion – Housing	≥ 6M	
Number of Insertion – Pin (Matte Tin)	≥ 500K	
Number of Insertion – Pin (NiPd)	≥ 300K	
Operating temperature (°C)	- 60 to +180	
Socket Material	TORLON® 5030 or equivalent	
Pin Material	BeCu - Ni-Au	



Without thermal refinement - Uneven heat distribution

Precision thermal socket design - Consistent DUT temperature



Contactor temperature simulation

① Results for 0.2mm thickness of pin

Component breakdown of Gamma module assembly

Sales & Service Representatives