JFTECH
We Bring Possibilities

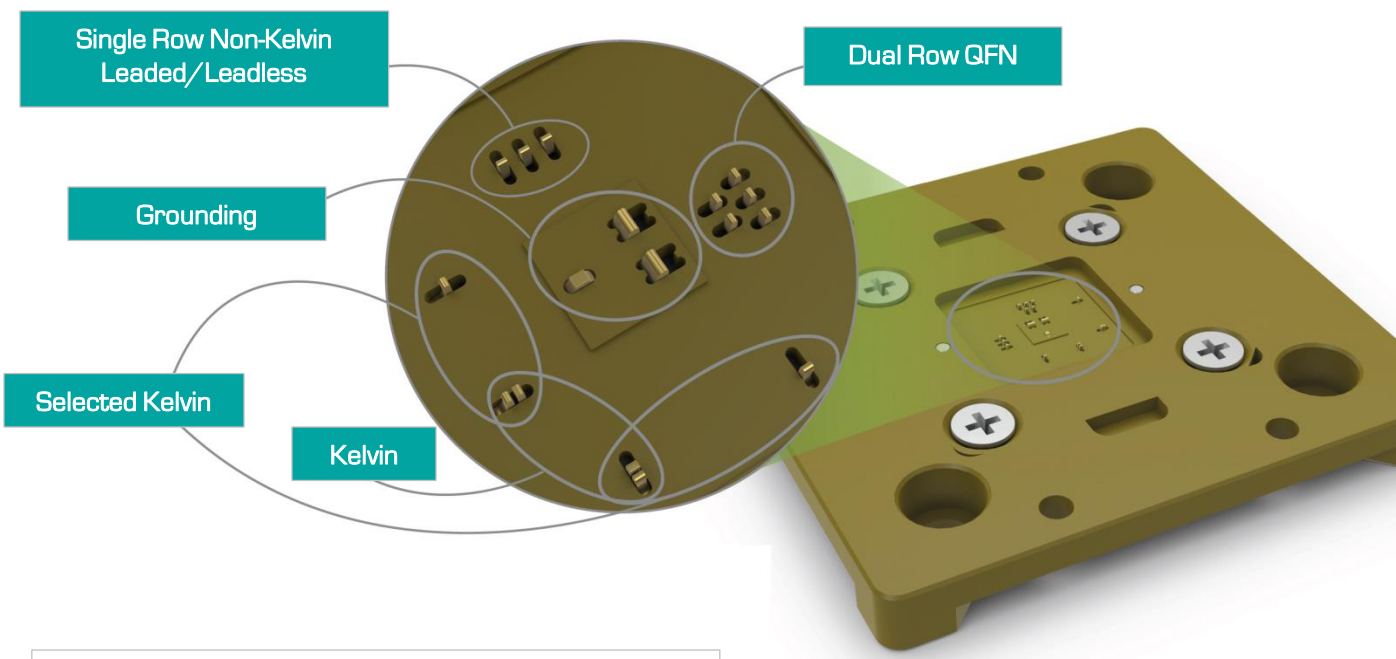
ALPHA™ TEST CONTACTING SOLUTION

FOR TRI-TEMPERATURE KELVIN AND NON-KELVIN TESTING

Alpha/Alpha-Kelvin is widely accepted and the industry leader used for Automotive and Power applications that require consistent contact resistance [Cres/RDS(on)] along with device under test temperature controlled ± 2°C and long mechanical life in production environments.

Alpha test contacting solutions are available in Kelvin, Selective-Kelvin and Non-Kelvin configurations and are compatible with most spring probe platforms due to Alpha's straight-thru contact technology for SOIC, TSOP, QFP, QFN, etc. packages.

Do You Need	Alpha Offers
Self cleaning	Scrubbing (≤ 0.15mm)
Sustainable CRes	Single piece cantilever pin (≤ 30mΩ)
High current testing	≥ 3.2A continuous
Temp testing of - 60°C to +180°C	Reliable temp test with single piece pin construction
Longer lifespan test solution	300K ~ 500K insertion (pin) ≥ 6M insertion (housing)
Sustainable 1st Pass Yield (FPY)	Longer MTBA & MTBF
Loadboard friendly	No wearing on loadboard
Lower Cost of test (CoT)	Higher OEE



Package range : SOIC, SOP, MSOP, TSOP, QFP, DFN, QFN
Pitch : ≥ 0.4mm

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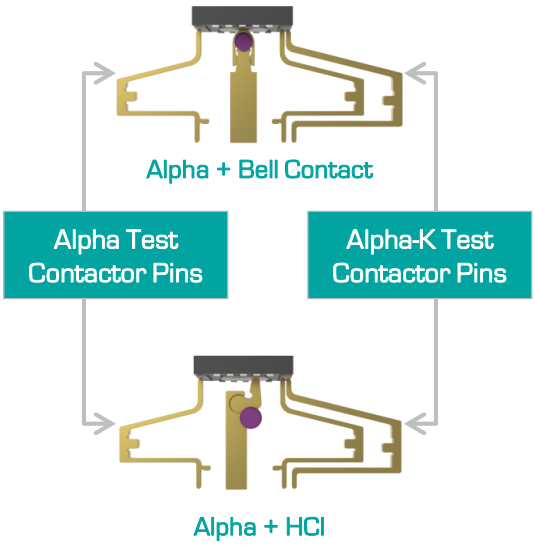
http://www.jf-technology.com

Design Features

- ✓ Mechanical robustness
- ✓ Versatile and cost effective
- ✓ Excellent Current Carrying Capacity (CCC)
- ✓ Thermal Conditioning Channel (TCC) Technology
- ✓ Short Wiping Stroke (SWS) Technology
- ✓ Advanced Contact Finish (ACF) Technology

Electrical Specification①	Single Contact (Non-Kelvin)	Dual Contact (Kelvin)
Self Inductance (nH)	3.68	3.58
Mutual Inductance (nH)	1.64	1.6
Ground Capacitance (pF)	0.35	0.65
Mutual Capacitance (pF)	0.26	0.55
Current Carry Capacity – CCC (A) *Duty Cycle 100% (100ms)*	3.6	
Resistance (mΩ)	≤ 30	10
S21 (Insertion Loss/Bandwidth) (GSG)	- 1dB @ 13.7GHz	- 1dB @ 3.6GHz
S11 (Return Loss/Bandwidth) (GSG)	- 20dB @ 1.0GHz	- 20dB @ 1.9GHz
S41 (Crosstalk/Bandwidth) (GSSG)	- 20dB @ 0.9GHz	- 20dB @ 0.6GHz

Mechanical Specification	Kelvin	Non-Kelvin
Pin Uncompressed Height (mm)	3.43	
Pin Compliance (mm)	0.2	
Pin Wiping Length (mm)	≤ 0.2	≤ 0.15
Gram Force Per Pin (g)	20 ~ 30	
Number of Insertion- Housing	≥ 6M	
Number of Insertion- Pin (Matte Tin)	300K ~ 500K	
Number of Insertion- Pin (NiPd)		
Operating Temperature (°C)	- 60 to +180	
Socket Material	Torlon® 5030 or equivalent	
Contact Pin Material	BeCu - Ni-Au	



Grounding Options

① Results for 0.2mm thickness of pin

Sales & Service Representatives

JF MICROTECHNOLOGY SDN. BHD. (718186-U)
Subsidiary of JF Technology Berhad (747681-H)