JFTECH
We Bring Possibilities

ALPHA™

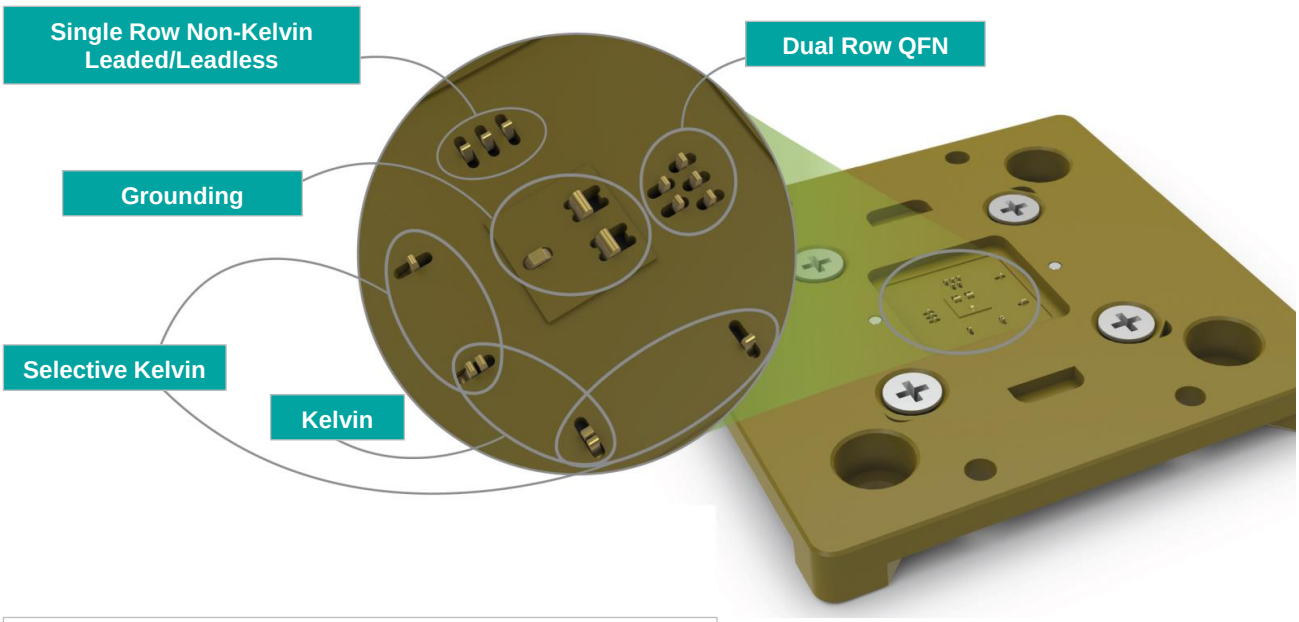
TEST CONTACTING SOLUTION

FOR TRI-TEMPERATURE KELVIN AND NON-KELVIN TESTING

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

Alpha Test Contacting Solution is available in Kelvin, Selective-Kelvin, as well as 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
Temperature testing of - 60°C to 180°C	Reliable temperature 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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https://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	Dual Contact (Kelvin)	Single Contact (Non-Kelvin)
Self Inductance (nH)	3.61 (Inner) ; 4.56 (Outer)	3.68
Mutual Inductance (nH)	1.6	1.64
Ground Capacitance (pF)	0.65	0.35
Mutual Capacitance (pF)	0.55	0.26
Current Carry Capacity – CCC (A) *Duty Cycle 100% (100ms)*	2.7 (Inner) ; 3.6 (Outer)	
Resistance (mΩ)	10	≤ 30
S21 (Insertion Loss/Bandwidth) (GSG)	- 1dB @ 3.6GHz	- 1dB @ 13.7GHz
S11 (Return Loss/Bandwidth) (GSG)	- 20dB @ 1.9GHz	- 20dB @ 1.0GHz
S41 (Crosstalk/Bandwidth) (GSSG)	- 20dB @ 0.6GHz	- 20dB @ 0.9GHz

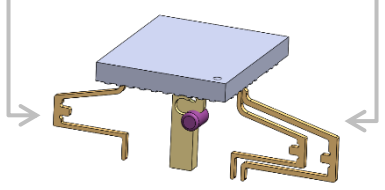
Mechanical Specification	Kelvin	Non-Kelvin
Pin Uncompressed Height (mm)	3.43	
Pin Compliance (mm)	0.15 / 0.20	
Pin Wiping Length (mm)	≤ 0.2	≤ 0.15
Gram Force Per Pin (g)	20 ~ 30	
Number of Insertion- Housing	≥ 6M	
Number of Insertion- Pin (Matte Tin)	300k ~ 500k	
Number of Insertion- Pin (NiPd)		
Operating Temperature (°C)	- 60 to 180	
Socket Material	Torlon® 5030 or equivalent	
Contact Pin Material	BeCu - NiAu	

① Results for 0.2mm thickness of pin

Grounding Options

Alpha Test Contactor Pins

Alpha-K Test Contactor Pins



Alpha + HCI
Alpha + Bell Contact

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