

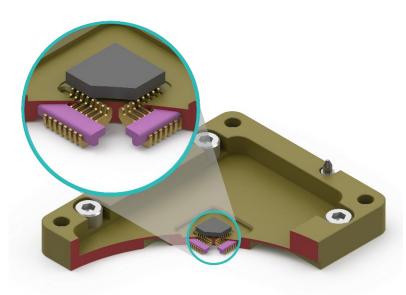
EZ CONTACTTM TEST CONTACTING SOLUTION

(PATENT NO. 10,018,652, CIP)

FOR ANALOG / RF / MM WAVE DEVICE TESTING

The EZ Contact High Performance Test Contacting Solution designed and validated for initial lab characterization through high-volume production test environments. The EZ Contact technology is a proprietary short rigid contacting solution with a single multifunctional elastomer for biasing and controlling contact motion. EZ Contact technology encompasses the patented technology of SWS (Short Wiping Stroke) along with ACF (Advanced Contact Finishing) and TCC (Thermal Conditioning Channel) Technology to meet your most demanding High Performance Electrical and Mechanical Test Requirements. Product is easily integrated into most IC Handler platforms.

| Key Features | EZ Contact Technology Delivers | |
|---|---|--|
| Single Multifunctional Elastomer | Easy Installation, Inventory and Cost Reduction, Consistent/ Controlled Contact Motion, Consistent CRes, Longer MTBA | |
| Short Electrical Length | Superior Signal Performance | |
| No Contact Pin Engagement with Back Wall of Socket Housing | No Wearing of the Socket Housing, Extended Lifespan | |
| SWS (Short Wiping Stroke) Technology | Ideal for Short Pads, Chamfered Corner Pads, and Wettable Flank and Step Cut Styles | |
| ACF (Advanced Contact Finishing) Technology | Loadboard Friendly, Minimizes Debris, Prolonged Cleaning | |
| TCC (Thermal Conditioning Channel) Technology | Maintains Thermal Set Point of Device during Test Process | |

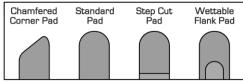


Package Styles: SOIC, SOP, QFP, QFN, TSOP, LGA

:≥0.3mm

Available in Non-Kelvin Configurations

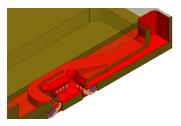
Design Features



Suitable for above Pad Styles



SWS Technology



TCC Technology - Maintain Thermal Set Point

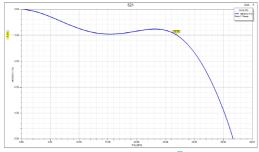
EZ CONTACT™ TEST CONTACTING SOLUTION

http://www.jf-technology.com

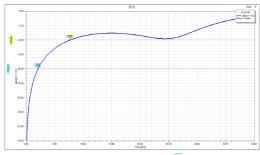
| Electrical Specifications | EZ - 1 | EZ - 2 ^① | |
|--|--------------------|---------------------|--|
| Self Inductance (nH) | 0.373 * | 0.771 * | |
| Mutual Inductance (nH) | 0.150 * | 0.438 * | |
| Ground Capacitance (pF) | 0.059 * | 0.256 * | |
| Mutual Capacitance (pF) | 0.031 * | 0.192 * | |
| S21 (Insertion Loss / Bandwidth) | -1dB @ 30~50GHz * | -1dB @ 26.91GHz * | |
| S11 (Return Loss / Bandwidth) | -20dB @ 10~20GHz * | -20dB @ 2.09GHz * | |
| S41 (Crosstalk / Bandwidth) | -20dB @ 10~20GHz * | -20dB @ 10.48GHz * | |
| Contact DC Resistance (m Ω) | ≤25 * | | |
| Current Carrying Capacity (A) Duty Cycle 100% | 4.8* | 7.5 * | |
| Current Leakage (pA) @ 10V | ≤1 * | | |

| Mechanical Specifications | EZ - 1 | EZ-2 |
|--|----------------------------|---------|
| Contact Uncompressed (mm) | 0.925 1.6 | |
| Contact Compliance (mm) | 0.175 | 0.2 |
| Contact Tip Coplanarity (mm) | ± 0.05 * | |
| Contact Wiping Length (mm) | ~ 0.1 * | |
| Gram Force per Contact (g) | 25 ~ 35 * | 30~40 * |
| Number of Insertions – Housing | 10M * | |
| Number of Insertions - Elastomer | ~ 300K * | |
| Number of Insertions – Pin (Matte Tin) | 300K ~ 500K * | |
| Number of Insertions – Pin (NiPd) | | |
| Operating Temperature (°C) | -45 ~ 155 | |
| Socket Material | Torlon® 5030 or equivalent | |
| Contact Pin Material | BeCu-Ni-Au | |

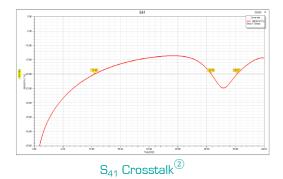
EZ-2 Performance



S₂₁ Insertion Loss²



 S_{11} Return Loss $^{\scriptsize \textcircled{2}}$



Grounding Options

| Bell Contact (BC) | Hinged Contact Insert (HCI) | EZ Contact | Ground Block with Contact(s) |
|-------------------|-----------------------------|-------------|--|
| ≥ 2x2 | ≥ 3x3 | ≥ 5x5 | ≥ 2x2 (with BC) ≥ 3x3 (with HCl) ≥ 5x5 (with EZ) |
| | | Who we have | mar |

- $\widehat{\underbrace{\ 1\ }}$ Based on EZ-2 Contact with 0.50mm pitch
- ② Simulated Results

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.

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