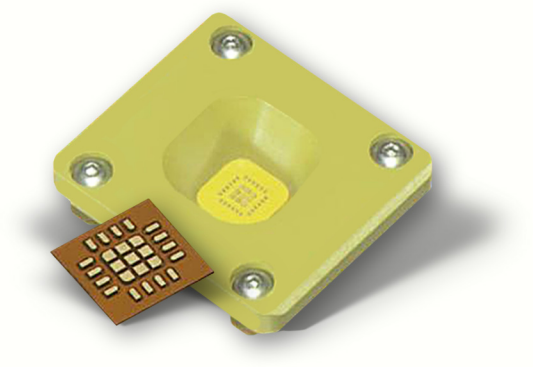
High-Frequency Interposer Socket

FEATURES

- Pressure-mount plunge to board interposer
- Multiple configurations: MLF, QFN, CSP, BGA, MSOP, QSOP, QFP, and more
- Very low inductance per contact site
- High cycle life with easy maintenance
- Manual or Automated Handler applications



GENERAL SPECIFICATIONS

- **INSERTION LOSS**: less than -1dB to 40GHz
- **SOCKET BODY MATERIAL**: specified at time of quotation
- **INTERPOSER**: etched Kapton with Au-plated Pads and Compliant Pads on bottom side
- **AVAILABLE PITCHES**: down to 0.32mm
- **CONTACT SELF-INDUCTANCE**: 0.11nH (0.50mm pitch CSP).
- **VSWR**: <2:1 to 40GHz
- **CONTACT RESISTANCE**: <20mΩ
- **CONTACT FORCE**: 15-25 grams
- **CURRENT CAPACITY**: 2 amps (continuous) 4 amps (peak)
- **CONTACT LIFE**: 50,000-100,000
- **SIGNAL PATH LENGTH**: 0.011 (with compliant pads)
- **MUTUAL CAPACITANCE**: 0.015pF
- **TEMPERATURE OPERATING RANGE**: -40°C to 150°C

MOUNTING CONSIDERATIONS

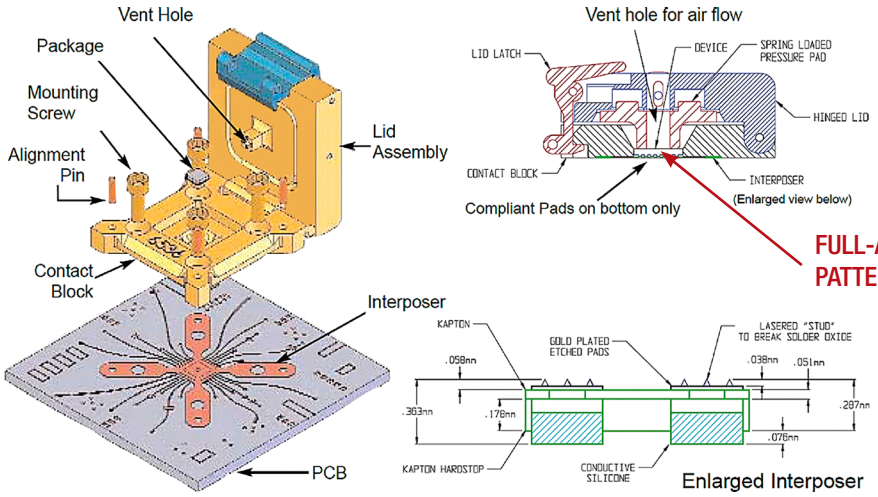
- **SUGGESTED PCB PADS**: Au-plated
- **MOUNTING FORCE**: 5-oz inches [0.035Nm]

ORDERING INFORMATION
Consult Factory for P/N

INTERPOSER CARE and CLEANING

TEST REPORTS

- Kapton CSP RF Measurement
- Kapton CSP Socket DC Cycling
- Kapton CSP Socket DC Measurement
- Kapton CSP Socket RF Cycling
- Kapton Interposer 0.5mm Socket Electrical Characterization
- Kapton Interposer Decibel Graph
- Kapton QFP Microstrip Socket DC Measurement
- Kapton QFP Socket DC Cycling
- Kapton QFP Socket DC Measurement
- Kapton QFP Socket RF Cycling
- Kapton QFP Socket RF Measurement



FULL-ARRAY SHOWN AS AN EXAMPLE; YOUR SPECIFIC DEVICE PATTERN/FOOTPRINT WILL BE SUPPLIED WHEN ORDERED.

ALL DIMENSIONS: INCHES [MILLIMETERS]
ALL TOLERANCES: ±0.005 [0.13] UNLESS OTHERWISE SPECIFIED
CONSULT FACTORY FOR OTHER SIZES AND CONFIGURATIONS

CUSTOMIZATION: ARIES SPECIALIZES IN CUSTOM DESIGN AND PRODUCTION. SPECIAL MATERIALS, PLATINGS, SIZES, AND CONFIGURATIONS CAN BE FURNISHED, DEPENDING ON QUANTITY.

ARIES RESERVES THE RIGHT TO CHANGE PRODUCT GENERAL SPECIFICATIONS WITHOUT NOTICE

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RoHS Compliant