

> 40 GHz Microwave EMI Gasket

Mechanically Compliant * Non Oxidizing * Conductive Diamond Contacts

Electrical Specifications

- ◆ > 40 GHz bandwidth -1db (S21) ~40 GHz Return loss -20db (S11)
- ◆ <3 mil ohms contact resistance
- ◆ Superior shock and vibration resistance
- ◆ ~1 % increase in impedance measured at 10 Gbit/s data rate
- ◆ Loop-inductance for two adjacent contacts: 0.5 nH
- ◆ Mutual-inductance between two adjacent-contact loops: 0.05 nH
- ◆ Mutual-capacitance between two adjacent-contact loops: 0.09 pF
- ◆ Interposer pad matches PCB and Package dimensions for little or no ringing or L/C discontinuity
- ◆ Gasket custom designed to mate to mechanical design

Interconnect Technology Features

- ◆ Pads plated with 4-20 um conductive diamonds
- ◆ Horizontal - Pin-Less Interposer™
- ◆ 10 micro-inches gold plated
- ◆ Contact point size is 10 um; 10 mil pitch can be achieved
- ◆ RoHs compliance - lead free

Pin Count

- ◆ >2000

Maintenance

- ◆ Surface can be refurbished
- ◆ Clean with ultrasound bath

Reliability

Corrosion and vibration resistant

Insertions

- Thousands of insertions without measurable degradation in signal integrity

Alignment

- Guide pin or equivalent

Force

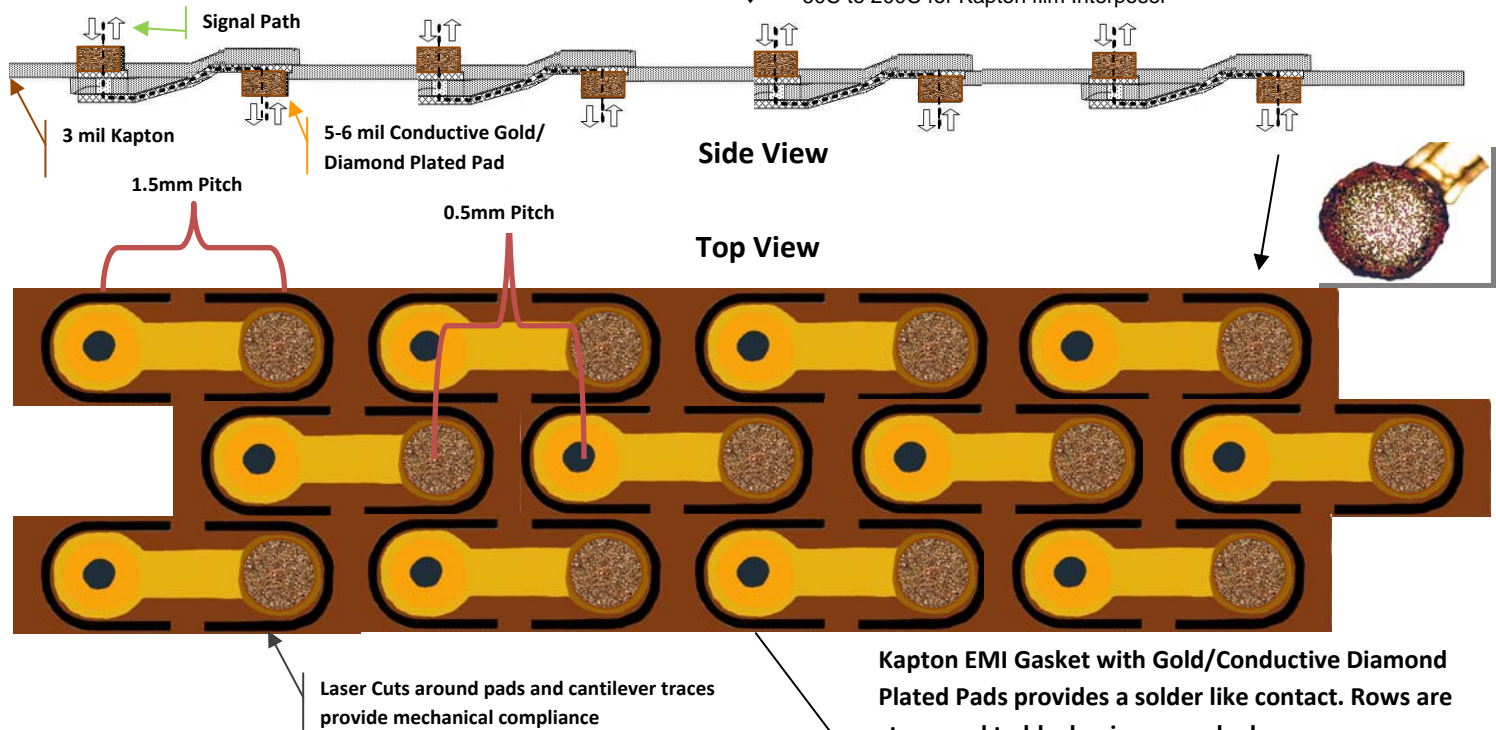
- 10-15 Grams force per pad required to achieve electrical continuity

Current Handling:

- ◆ ~15 amps per 10 mil diameter pad

Temperature range

- ◆ -60C to 200C for Kapton film Interposer



Microwave EMI Gasket Highlights

>40GHz Reusable Gasket
Build to Design
Extreme Temperature -60 to 200C
Non Oxidizing Contacts



www.gigaconnections.com

