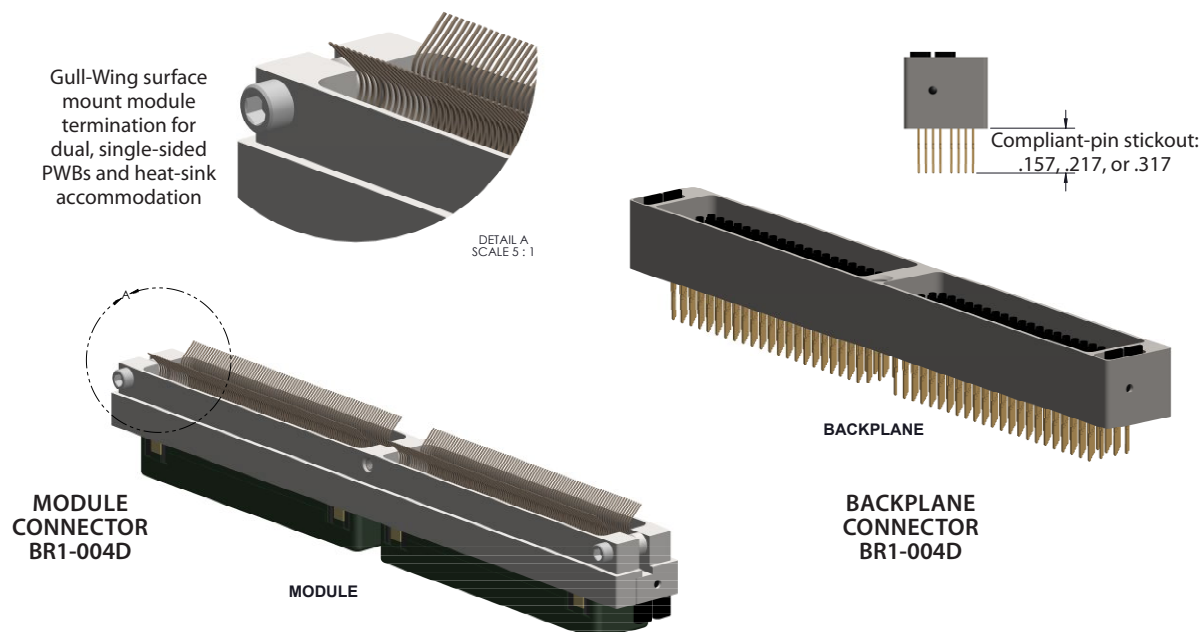


# LOW INSERTION FORCE, HIGH DENSITY LRM Brush Connectors



## SEM-E Standard Module (surface-mount) and Board (compliant pin) connectors — Brush Contact Module Performance Specifications



ELECTRICAL		
Parameters	Requirements	Test Procedure
Contact Resistance	20 mΩ Max at 2A	EIA-364-06
Low Signal Level Contact Resistance	20 mΩ Max	EIA-364-23
DWV (Sea Level)	100 VAC RMS at 60 Hz	EIA-364-20
DWV (Altitude)	100 VAC RMS at 60 Hz (70,000 ft)	EIA-364-20
Insulation Resistance	1 MΩ min. at 100 VDC	EIA-364-21
Inductance	No greater than 15 nH	EIA-364-33
Capacitance	No greater than 3 pF	EIA-364-30
Shell to Shell Resistance	2.5 mΩ Max	EIA-364-83
MECHANICAL		
Parameters	Requirements	Test Procedure
Random Vibration (20 hrs in Each Axis)	No Electrical Discontinuity >1 Microsecond	EIA-364-28
Shock (50G, 11 millisecond shock pulse)	No Electrical Discontinuity >1 Microsecond	MIL-STD-810
Random Vibration (20 hrs in Each Axis)	No Electrical Discontinuity >10 Nanoseconds	EIA-364-28 & EIA-364-87
Shock (50G, 11 millisecond shock pulse)	No Electrical Discontinuity >10 Nanoseconds	MIL-STD-810 & EIA-364-87
Solderability	95% Min Solder Coverage	MIL-STD-202
Resistance to Solder Heat	260°C Dip for 10 Seconds	EIA-364-56
Contact Gas Tightness	Continue to Meet LLCR After Exposure	EIA-364-36
Intermittence (During Shock and Vibration)	No Electrical Discontinuity >10 Nanoseconds	EIA-364-87
ENVIRONMENTAL		
Parameters	Requirements	Test Procedure
Durability #1	200 Cycles, Blind Mate Misalignment Simulation	MIL-M-28787
Durability #2	200 Cycles, Thermal Clamp Simulation	
Salt Fog	48 Hrs, 5% Solution at 35°C	EIA-364-26
Thermal Cycling	100 cycles from -65°C to +125°C	EIA-364-32
Humidity	240 Hrs at 90% to 95% Humidity Exposure	EIA-364-31
Flammability	Non-Burning or Self-Extinguished After 5 Seconds	MIL-STD-202
COMPLIANT CONTACT TO BACKPLANE (CONFORMAL COATED) PTH INTERFACE		
Parameters	Requirement	
Compliant Component Insertion	Initial Insertion shall be 1.5 lbs min and 40 lbs max	
Compliant Component Retention	After third Insertion, the Push Out Force shall be 1.5 lbs min and 40 lbs max	
Radial Hole Deformation	PTH Deformation <0.015 in when Measured from Drilled Hole	
Axial Hole Deformation (Hole Wall damage)	Min Avg Copper Thk <0.0003 in. No Copper Cracks or Separations	
Backplane to Compliant Resistance	< 17 mV	