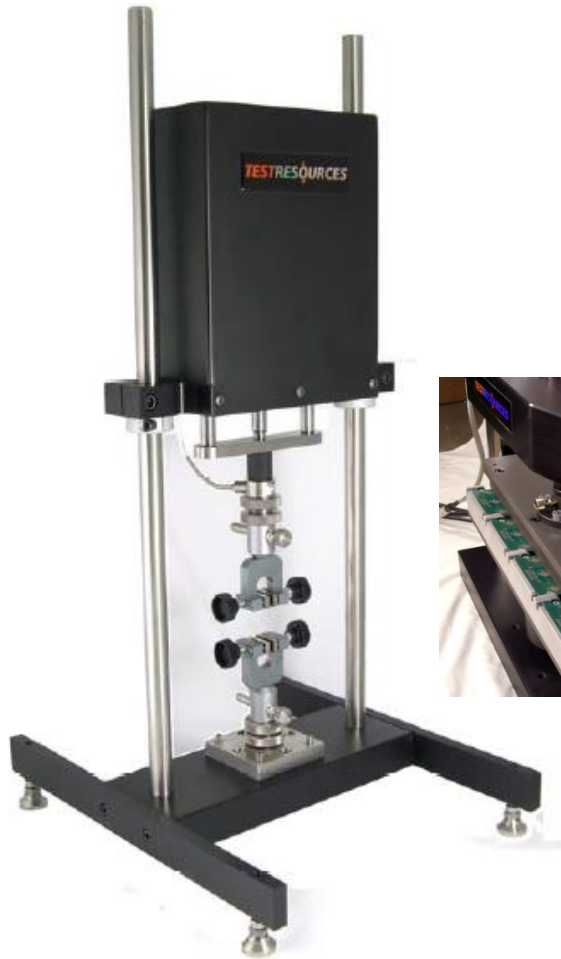


Four Points Cyclic Bend Tester



Meet JEDEC STD JESD 22 B113
-Board Level Cyclic Bend Test Method
for Interconnect Reliability
-Characterization of Components for
Handheld Electronic Products

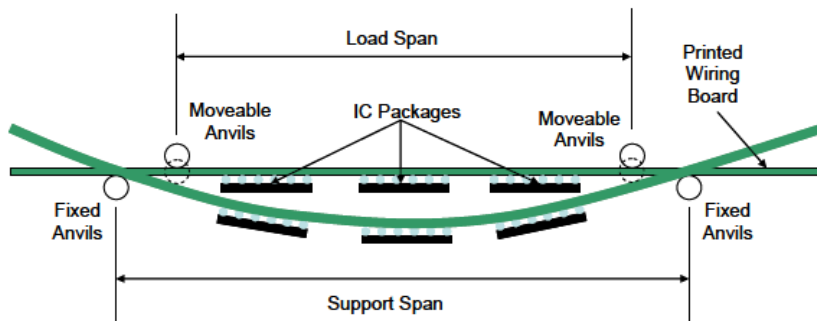
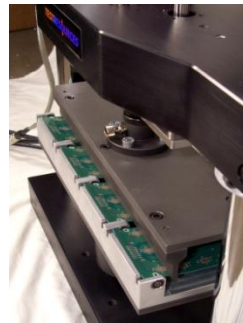
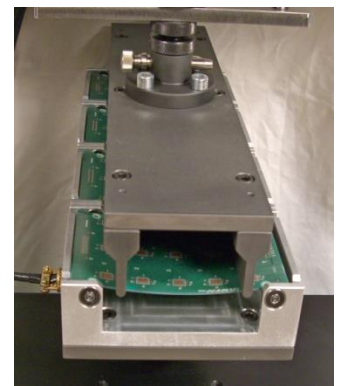


Figure 1 — Schematic showing 4-Point bend setup



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Parameter	JEDEC Spec Requirements	Testresources 840RE213
Span of support anvils	110 mm	110 mm
Span of load anvils	75 mm	75
Load anvil-to-component distance	10 mm	10mm
Minimum anvil radius	3 mm	3
Load anvil vertical displacement	2 mm (preferable if machine can support 4 mm)	38mm
Load profile	Sinusoidal	sinusoidal
Cyclic Frequency	1 (preferable if machine can support up to 3 mm)	1 -15hz
Number of cycles	200000 cycles	200000 cycles or more
Event Detector	Can measure: Upper limit = 1000Ω, or 5 times the initial resistance. Failure if upper limit is reached, followed by 9 events within 10% of the cycles	100 to 5000ohm user adjustable. Failure condition according to IPC 785 and JEDEC B111
Strain Gauge	Change in strain over the test should not exceed 15% Strain measurement sampling frequency >= 10 times bending frequency	2 strain input channels
Data Recorder	21 channels, 10 samples/second	Optional item Use Event detector
Footprint		4"x11.5" (load frame) 12"Hx16"Wx10"D (power pack)
Machine Height		800mm(31")