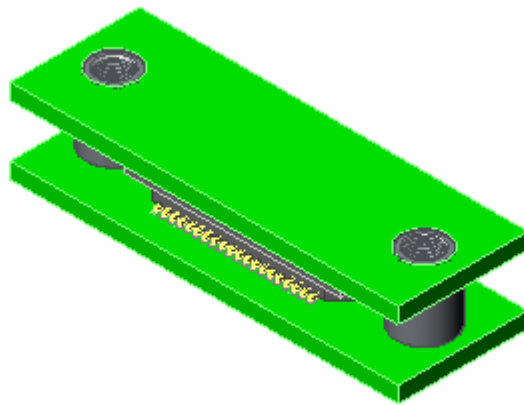




Project Number:		Tracking Code: TC0623--1058				
Requested by: Brian Vicich		Date: 6/6/2006		Product Rev: A		
Part #: QSPR-XX			Lot #: N/A		Tech: Troy Cook	Eng: Dave Scopelliti
Part description: QXX Series Standoff					Qty to test: 7	
Test Start: 06/07/2006		Test Completed: 7/5/2006				



QSPR-XX

Standoff Retention Report

Tracking Code: TC0623--1058	Part #: QSPR-XX
Part description: QXX Series Standoff	

CERTIFICATION

All instruments and measuring equipment were calibrated to National Institute for Standards and Technology (NIST) traceable standards according to ISO 10012-1 and ANSI/NCSL 2540-1, as applicable.

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SCOPE

To perform the following tests: Test standoff retention on non-plated through holes (NPTH).

APPLICABLE DOCUMENTS

Standards: EIA Publication 364

FLOWCHARTS

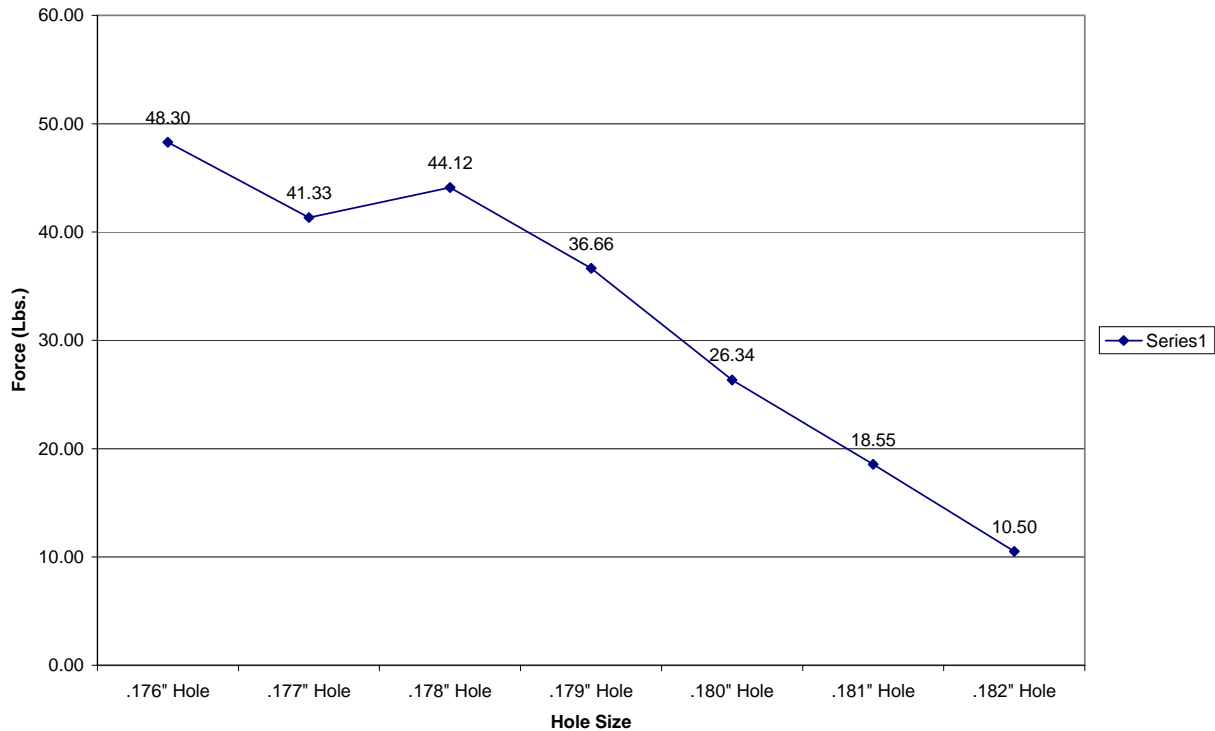
Standoff Retention

TEST STEP	GROUP A .176" Dia. NPTH PCB Hole <i>7 Samples</i>	TEST STEP	GROUP B .177" Dia. NPTH PCB Hole <i>7 Samples</i>	TEST STEP	GROUP C .178" Dia. NPTH PCB Hole <i>7 Samples</i>	TEST STEP	GROUP D .179" Dia. NPTH PCB Hole <i>7 Samples</i>
01	Push on standoff until breaks free	01	Push on standoff until breaks free	01	Push on standoff until breaks free	01	Push on standoff until breaks free
02	Record Retention	02	Record Retention	02	Record Retention	02	Record Retention

TEST STEP	GROUP E .180" Dia. NPTH PCB Hole <i>7 Samples</i>	TEST STEP	GROUP F .181" Dia. NPTH PCB Hole <i>7 Samples</i>	TEST STEP	GROUP G .182" Dia. NPTH PCB Hole <i>7 Samples</i>
01	Push on standoff until breaks free	01	Push on standoff until breaks free	01	Push on standoff until breaks free
02	Record Retention	02	Record Retention	02	Record Retention

TEST RESULTS**STANDOFF RETENTION (Lbs.):**

	.176" NPTH	.177" NPTH	.178" NPTH	.179" NPTH	.180" NPTH	.181" NPTH	.182" NPTH
Sample#1	47.88	35.10	40.22	32.05	26.04	20.09	11.19
Sample#2	40.44	35.93	43.59	43.10	36.47	22.16	9.42
Sample#3	41.03	37.18	46.60	33.78	23.53	17.13	6.36
Sample#4	47.80	39.11	46.29	30.78	22.68	14.81	10.35
Sample#5	42.36	42.11	40.11	37.91	25.93	17.08	7.00
Sample#6	59.80	51.80	49.90	43.70	25.70	17.30	16.70
Sample#7	58.80	48.10	42.10	35.30	24.00	21.30	12.50
Minimum	40.44	35.10	40.11	30.78	22.68	14.81	6.36
Maximum	59.80	51.80	49.90	43.70	36.47	22.16	16.70
Average	48.30	41.33	44.12	36.66	26.34	18.55	10.50

Average Standoff Retention Force

EQUIPMENT AND CALIBRATION SCHEDULES**Equipment #:** THL-02**Description:** Temperature/Humidity Chart Recorder**Manufacturer:** Dickson**Model:** THDX**Serial #:** 00120351**Accuracy:** Temp: +/- 1C; Humidity: +/-2% RH (0 - 60%) +/- 3% RH (61 - 95%).

... Last Cal: 06/16/05, Next Cal: 06/16/06

Equipment #: TCT-03**Description:** Dillon Quantrol TC2 Test Stand**Manufacturer:** Dillon Quantrol**Model:** TC2**Serial #:** 02-1033-03**Accuracy:** Speed Accuracy: +/- 5% of indicated speed; Displacement: +/- 5 micrometers.

... Last Cal: 5/12/06, Next Cal: 5/12/07

Equipment #: LC-250N (icell)**Description:** 250 Newton load cell for Dillon Quantrol test stand**Manufacturer:** Dillon Quantrol**Model:** icell**Serial #:** 04-0020-08**Accuracy:** .10 % of Capacity

... Last Cal: 5/10/2006, Next Cal: 5/10/2007