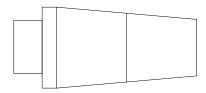
WIREBONDING CHECKLIST FOR CMS TEC DETECTORS

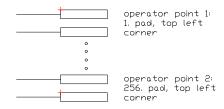
Program: TEC-4MOD or TEC-6MOD

Part Orientation:

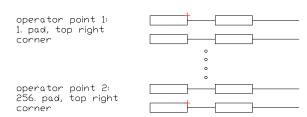


1. Pitch Adapter to Silicon Bonds

<u>Lead Reference System (L):</u> Pitch Adapter



Die Reference System (U): Silicon



First Bond: Pitch Adapter

Bond time: 20 ms

USG Current: 60 to 75mA

Force: 20

Second Bond: Silicon

Bond time: 20 ms

USG Current: 45 to 55mA

Force: 35

Loop Parameters:

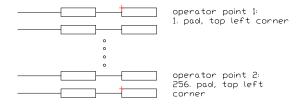
Shape: square

Loop height: 50 mils Clear height: 60 mils clamp close at loop

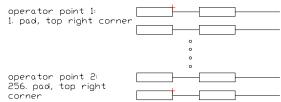
Tail Parameters:

2. Silicon to Silicon Bonds

Lead Reference System (L): Left Silicon wafer



Die Reference System (U): Right Silicon wafer



First Bond: Left Silicon wafer

Bond time: 20 ms

USG Current: 45 to 50mA

Force: 35

Loop Parameters:

Shape: square

Loop height: 50 mils Clear height: 60 mils clamp close at loop

Second Bond: Right Silicon wafer

Bond time: 20 ms

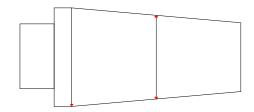
USG Current: 45 to 55mA

Force: 35

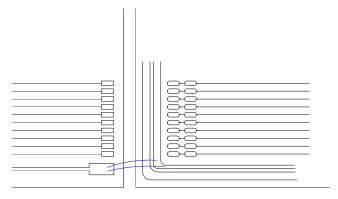
Tail Parameters:

3. Bias Bonds

Bond Locations:



Pitch Adapter to Silicon:



First Bond: Pitch Adapter

Bond time: 20ms

USG Current: 60 to 75mA

Force: 20

Bond foot at wire angle

Loop Parameters:

Shape: square

Loop height: 45 mils Clamp close at loop

Second Bond: Silicon

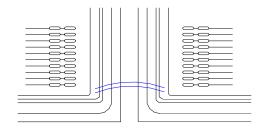
Bond time: 20 ms

USG Current: 45 to 50mA

Force: 35

Tail Parameters:

Silicon to Silicon:



First Bond: Left Silicon wafer

Bond time: 20 ms

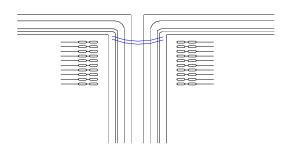
USG Current: 45 to 55mA

Force: 35

Loop Parameters:

Shape: square

Loop height: 45 mils clamp close at loop



Second Bond: Right Silicon wafer

Bond time: 20 ms

USG Current: 45 to 55mA

Force: 35

Tail Parameters: