

**Please ship parts to:**  
**GORILLA CIRCUITS ASSEMBLY (INVENTORY DIVISION)**

Attn: Kitting (Job # ---)  
2102 Ringwood Avenue  
San Jose, CA 95131



**Discrete SMT Passives:**

- 01005 size: 50% extra — minimum of 100 extra
- 0201size: 50% extra — minimum of 50 extra
- 0402 size: 25% extra — minimum of 50 extra
- 0603 size: 15% extra — minimum of 50 extra
- 0805 size: 10% extra — minimum of 50 extra
- 1206 size or larger: 10% extra — minimum of 25 extra

**Active Devices:**

- 0.6mm or smaller: 20% extra — minimum of 25 extra
- 0.6 - 1mm: 10% extra — minimum of 15 extra
- 1 - 1.6mm: 5% extra — minimum of 10 extra
- 1.6 - 2mm: 5% extra — minimum of 10 extra
- Larger than 2mm: 5% extra — minimum of 10 extra

**Thru-Hole Devices:**

- Small Devices: 5% extra — minimum of 3 extra
- Other Devices: 2% extra — minimum of 2 extra

**Hardware (screws, nuts, washers, etc.):**

- Hardware costing less than \$.50: 10% extra — minimum of 5 extra
- Hardware costing \$.50 - \$2.00: 5% extra — minimum of 2 extra
- Hardware costing more than \$2.00: 2% extra — minimum of 1 extra

**REQUIREMENTS ONTO OUR CURRENT ATTRITION GUIDELINES POLICY**

**All parts should always be properly packaged and labeled**

**For Caps and Resistors**

- Must be properly packaged and labeled – tape/reel
- One continuous strip
- Do not fold strips
- If cut tape, must be at least 5" long and no more than 2 strips per item

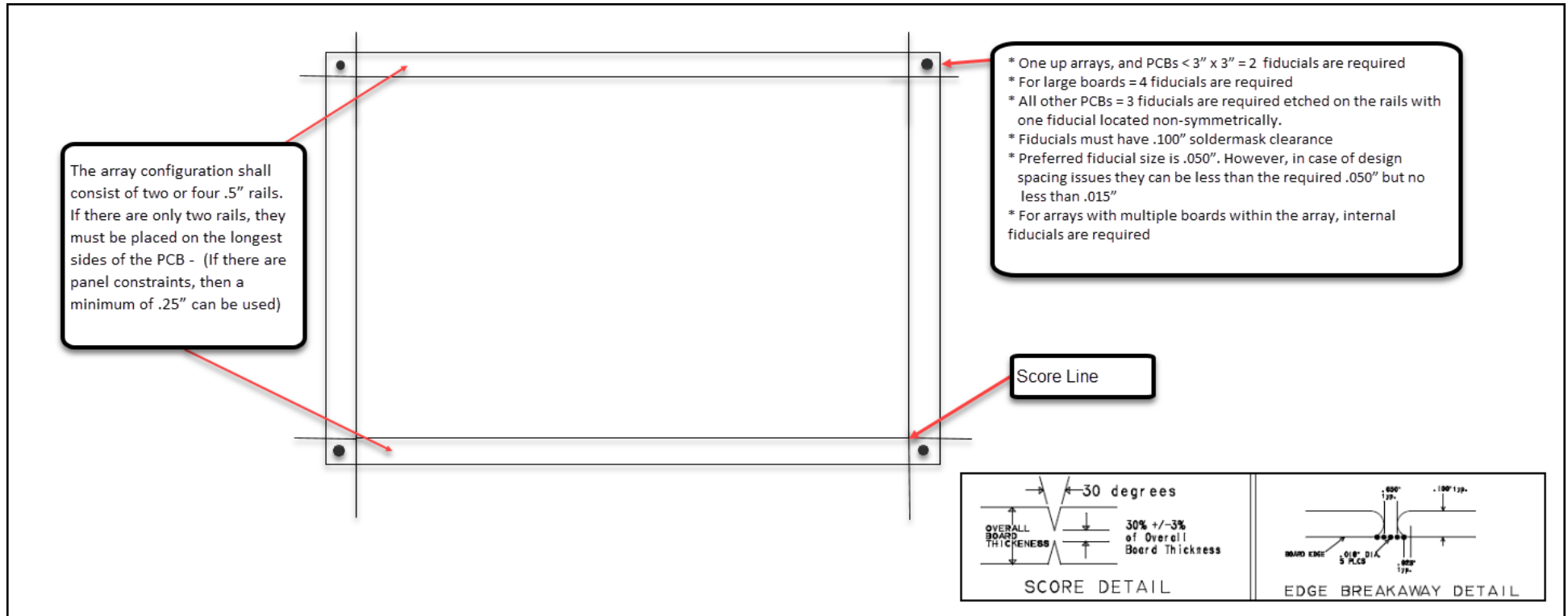
**For all SMT ICs**

- Must be properly package and labeled– Reels, trays or tubes
- No loose SMT parts will be accepted, the exception - only with prior approval from Gorilla Assembly Management.

**Kit can be rejected if failure to follow or put on hold until Assembly Management gives approval**

**Please see PCB array and fiducial requirements on next page for consigned PCBs**

## Assembly Panelization Requirements



1. PCBs smaller than 1" x 1" or odd shape PCBs must be in an array format
2. Preferred array panel size is 10" x 10" / PCBs .062" thick and up = Max array size is 16" x 16"
3. PCB thickness of .031 and less will need to be on a smaller array size to maintain rigidity throughout the assembly process (should not be  $< 3" \times 3"$ )
4. Scoring is the preferred method for de-panelization. A second option to scoring would be tab routing (a combination of tab & score is acceptable)
5. PCBs over .125 thick shall be fabricated with breakaway tabs, milled down to .062 thickness
6. If four rails are used with tab rout = Ten .020" non-plated through hole breakaway vias must be added on the tabs (five on each side)
7. For arrays with multiple boards within the array, internal fiducials are required
8. For HDI PCBs or PCBs that are too small for internal fiducials, - An alternative for fiducial placement is - the fabrication house would need to create an array to accommodate external fiducials placed around each PCB. The fiducials shall be placed as close as they possibly can without interfering with routing or scoring, but far enough as not to overlap onto adjacent PCBs. The spacing between each PCB will be dependent upon the design or shape, but can be .300" or less.