

## Quick Reference Guide

### Product Grade Comparisons: Industrial, Non-Compliant “M”, /883 Military Grade

Apex Microtechnology products are available in different levels of quality screening: INDUSTRIAL, NON-COMPLIANT MILITARY or “M”, and M/883 COMPLIANT MILITARY. All INDUSTRIAL grade products are 100% static and dynamic tested at +25°C. MILITARY grade product is 100% tested over the product’s respective full temperature range for both static and dynamic parameters. Below is a re-cap of the static and dynamic test operations performed for each available grade.

OPERATION	INDUSTRIAL	NON-COMPLIANT “M”	/883 COMPLIANT MILITARY
Clean Room Processing	Yes	Yes	Yes
Clean Room Testing	Yes	Yes	Yes
Solder Integrity Testing	Yes	Yes	Yes
Wire Bond Integrity	Yes	Yes	Yes
All Processing Under Document Control	Yes	Yes	Yes
High Power Die Inspection	No	Yes	Yes
Processed on Military Line	Yes	Yes	Yes
<b>Maximum Number of Re-work Cycles Specified:</b>			
Solder	Yes	Yes	Yes
Epoxy	No	Yes	Yes
Wirebond	Yes	Yes	Yes
Pre-cap Visual	Sample	100%	100%
Pre-seal Vacuum Bake	Yes	Yes	Yes
Welded in Controlled Atmosphere <sup>1</sup>	Yes	Yes	Yes
Each Unit Checked for Hermeticity <sup>1</sup>	No	Yes	Yes
Temperature Cycle: -65°C to +150°C for 10 cycles	No	Yes	Yes
Constant Acceleration Condition 5000G	No	Yes	Yes
Burn-In: 160 hours @ TC = 125°C	No	Yes	Yes
Dynamic Testing	+25°C	-55°C, +25°C, +125°C	-55°C, +25°C, +125°C
External Visual	Yes	Yes	Yes
Pin Finish	Ni or Solder	Solder	Solder

<sup>1</sup> Metal Packaged Hybrid models

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## *Industrial and Military Products*

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Several Apex Microtechnology products are available with Standard Military Drawing (SMD) numbers. Below is a sample listing. Please check online at [www.cirrus.com](http://www.cirrus.com) for updates.

BASE MODEL	STOCKED SMD #
PA02	5962-9067901HXA
PA07	5962-9063801HXA
PA08	5962-9072301HXA
PA09	5962-9170001HXA
PA10	5962-9082801HXA
PA12	5962-9065901HXA
PA51	5962-8762001,02YA
PA83	5962-9162101HXA
PA84	5962-9073601HXA