Automotive Qualification Results Summary of AD8280 Metal Mask Revision and Data Sheet Specification Change

QUALIFICATION RESULTS			
TEST	**SPECIFICATION**	**SAMPLE SIZE**	**RESULTS**
Early Life Failure Rate (ELFR)	MIL-STD-883	**3x800**	**Pass**
High Temperature Operating Life (HTOL)*	JEDEC *JESD22-A108*	**9 lots x 77 samples**	**Pass**
Highly Accelerated Stress Test (HAST)*	JEDEC *JESD22-A110*	**9 lots x 77 samples**	**Pass**
Temperature Cycle (TC)*	JEDEC *JESD22-A104*	**6 lots x 77 samples & 3 lots x 45 samples**	**Pass**
Autoclave (AC)*	JEDEC *JESD22-A102*	**6 lots x 77 samples & 3 lots x 45 samples**	**Pass**
High Temperature Storage Life (HTSL)	JEDEC *JESD22-A103*	**45 samples**	**Pass**
Solder Heat Resistance (SHR)*	JEDEC/IPC *J-STD-020*	**30 samples**	**Pass**
Latch-Up	JEDEC *JESD78*	**3/level**	**Pass 200mA**
Electrostatic Discharge *Human Body Model*	ESDA/JEDEC *JS-001*	**3/voltage**	**Pass 1,000V**
Electrostatic Discharge *Field-Induced Charged Device Model*	JEDEC *JESD22-C101*	**3/voltage**	**Pass 1,250V**

* These samples were subjected to preconditioning (per J-STD-020 Level 3) prior to the start of the stress test. Level 3 preconditioning consists of the following: 1. Bake – 24 hours at 125ºC; 2. Soak – unbiased soak for 192 hours at 30ºC, 60%RH; 3. Reflow – three passes through a reflow oven with a peak temperature of 260ºC. TC samples were subjected to wire-pull test after 500 cycles with results within specification limits.