

MP GRADE FLOWCHART

Vendor	: Linear Technology Corporation	▽	Incoming
Product	: Any Product	□	Quality Inspection & Gate
Package	: Any Package	□	Quality Inspection & Gate
Location Of Wafer Fab	: Linear Technology Corp., Milpitas, CA or Camas WA – USA or TSMC Taiwan.	○	Manufacturing
Assembly	: LTC Penang, Unisem, Carsem – Malaysia or Chinteik, NSEB Thailand	○	Manufacturing
Final Test	: Linear Technology Corp., Milpitas, CA.	◊	Quality Monitor / Surveillance
QC Test	: Linear Technology Corp., Milpitas, CA.	◊	Quality Monitor / Surveillance
Source Accept Test	: Linear Technology Corp., Milpitas, CA.,	□	Rework
Quality Contact	: Dwight Somerset, LTC, Milpitas, CA. (408) 432-1900 Ext : 2427	□	Rework

Flow Chart Incoming Assy Rework	Process Step	Description	Inspection / Test Criteria	Method / Equipment	Sampling Plan	SPC Technique
□	LTC Incoming Inspection	Check Quality Of Incoming Assembled Material	Package Dimension External Visual Mark Permanency (If Ink Marked) Solderability Die Attach Quality Lead Fatigue Test	Optical Comp- arator & Calipers 3X to 30X Microscope Mil-Std-883 Method 2015 Mil-Std-883 Method 2003 Die Shear Lead Fatigue Tester	S/S=2, Acc=Ø S/ =76, Acc=Ø S/S=4, Acc=Ø S/S=3, Acc=Ø S/S=5, Acc=Ø S/S=10, Acc=Ø	% LAR Trend Chart
○	Class Test	Electrical Test	Test to Guard Banded Data Sheet Test Limits	Integrated Circuit Test System	Every Lot 100% Basis	Minimum Yield Control
□	QA Electrical Test at +25°C	Electrical Quality	Test to Guard Banded Data Sheet Test Limits	Integrated Circuit Test System	S/S=315, Acc=Ø	ppm Chart
○	QA Electrical Test at +125°C	Electrical Quality	Test to Data Sheet Test Limits	Integrated Circuit Test System	100%	ppm Chart
◊	QA Electrical at -55°C	Electrical Quality	Test to Data Sheet Test Limits	Integrated Circuit Test System	100%	ppm Chart
○	External Visual Inspection	Module Integrity	Visual: Mold Voids/Cracks, Etc.	Unaided Eye	100%	Yield Chart
□	QA Post Pack Inspection	Package/Pack Quality Inspection	Verify Top Mark, Correct Pack Method, Correct labeling, External Visual Inspection, Bent Leads.	3X to 10X Microscope Inspection	S/S=125, Acc=Ø	% LAR and ppm P.A. Chart
○—◊	QA Ship Bench Inspection	Plant Clearance Inspection	Paperwork Check, Verify Correct Part Numbers and Quantity Count	Unaided Eye	LTPD = 2% S/S=116, Acc=Ø	
▽	Ship to Customer					