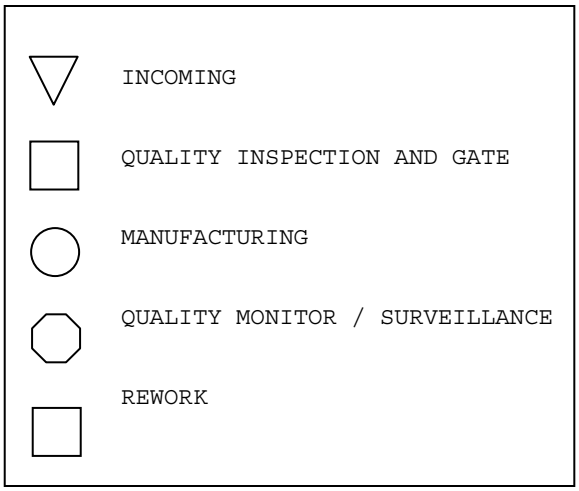

MP GRADE FLOWCHART

UPDATED 12/19/08

Vendor:	Linear Technology Corporation
Product:	Any Product
Package:	Any Package
Location of Wafer Fab:	Linear Technology Corp., Milpitas, CA or Camas, WA-USA or TSMC Taiwan
Assembly:	LTC Penang, or Unisem or Carsem - Maylasia or Chinteik, or NSEB Thailand
Final Test:	Linear Technology Corp., Milpitas, CA.
Q.C. Test:	Linear Technology Corp., Milpitas, CA.
Source Accept Test:	Linear Technology Corp., Milpitas, CA.
Quality Contact:	Naib Girn, LTC Milpitas, CA (408) 432-1900 Ext. 2519

FLOW CHART	PROCESS STEP	DESCRIPTION	INSPECTION/TEST CRITERIA	METHOD & EQUIPMENT	SAMPLING PLAN	SPC TECHNIQUE
	LTC INCOMING INSPECTION	CHECK QUALITY OF INCOMING ASSEMBLED MATERIAL	PACKAGE DIMENSION	OPTICAL COMPARATOR & CALIPERS	S/S = 2, ACC = 0	% LAR TREND CHART
			EXTERNAL VISUAL	3X TO 30X MICROSCOPE	S/S = 45, ACC = 0	
			MARK PERMANENCY (IF INK MARK)	MIL-STD-883 METHOD 2015	S/S = 3, ACC = 0	
			SOLDERABILITY	MIL-STD-883 METHOD 2003	S/S = 3, ACC = 0	
			DIE ATTACH QUALITY	DIE SHEAR	S/S = 11. ACC = 0	
			LEAD FATIGUE TEST	LEAD FATIGUE TESTER	S/S = 10, ACC = 0	
	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 @ +25°C	ELECTRICAL QUALITY	TEST TO GUARD BANDED DATA SHEET TEST LIMITS	INTEGRATED CIRCUIT TEST SYSTEM	S/S = 315, ACC = 0	PPM CHART
	QA ELECTRICAL TEST @ +125°C OR AS SPECIFIED IN DATA SHEET	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 = 116, ACC = 0	% LAR AND PPM CHART
	QA SHIPBENCH INSPECTION	PLANT CLEARANCE INSPECTION	PAPERWORK CHECK, VERIFY CORRECT PART NUMBERS AND QUANTITY COUNT	UNAIDED EYE	EVERY SHIPMENT	
	SHIP TO CUSTOMER					