

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC6652AHMS8-4.096#TRPBF

(Engineering Calculation)

MSOP

(printed on: 4/18/2011 10:11:07 PM)

TOTAL MASS (g):

0.02714403

COMPONENT MATERIAL	VENDOR/ INDUSTRY NAMES	CONSTITUENT NAME	CAS NUMBER	CONSTITUENT MASS (g)	CONSTITUENT (PPM) OF MATERIAL	CONSTITUENT (PPM) OF TOTAL PKG.		
Active Device	Linear Technology	Silicon (Si)	7440-21-3	0.001907	1000000	70254.87		
Die Coat	Dow Corning	Silicone	67762-90-7	0	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0	0	0		
		Iron (Fe)	7439-89-6	0.006206	580000	228632.3		
		Phosphorus (P)	7723-14-0	0	0	0		
		Zinc (Zn)	7440-66-6	0	0	0		
		Nickel (Ni)	7440-02-0	0.004494	420000	165561.3		
		Silicon (Si)	7440-21-3	0	0	0		
		Magnesium (Mg)	7439-95-4	0	0	0		
		Tin (Sn)	7440-31-5	0	0	0		
		Lead Frame Total:				0.0107	1000000	394193.6
Plating	PMI	Exter. Plating Pb	7439-92-1	0	0	0		
		Exter. Plating Sn	7440-31-5	0.000710025	1000000	26157.69		
		External Plating Total:				0.000710025	1000000	26157.69
		Inter. Plating Ni	7440-02-0	0	0	0		
		Inter. Plating Ag	7440-22-4	8.6E-05	1000000	3168.285		
		Internal Plating Total:				8.6E-05	1000000	3168.285
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000668	750000	24609.47		
		Tin (Sn)	7440-31-5	0	0	0		
		Lead (Pb)	7439-92-1	0	0	0		
		Silica (SiO2)	60676-86-0	0	0	0		
		Metal Oxide		0	0	0		
		Resin (EP)		0.000223	250000	8215.436		
Die Attach Total:				0.000891	1000000	32824.9		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001659	130000	61118.42		
		Bromine (Br)	40039-93-8	0	0	0		
		Silica (SiO2)	60676-86-0	0.010591	830000	390177.9		
		Antimony Trioxide (Sb2O3)	1309-64-4	0	0	0		
		Metal Hydroxid		0.000447	35000	16467.71		
		Carbon Black (C)	1333-86-4	6.4E-05	5000	2357.793		
		Encapsulation Total:				0.012761	1000000	470121.9
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	8.9E-05	1000000	3278.806		