

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC1550L.CMS8-2#TRPBF

(Engineering Calculation)

MSCP

(printed on: 2014-01-20 02:05:59)

TOTAL MASS (g): 0.026837

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	0.001676	1000000	62451.03125
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.010433	975000	388753.90625
		Iron (Fe)	7439-89-6	0.000237	24000	9576.32128906
		Phosphorus (P)	7723-14-0	0.000003	300	111.785865784
		Zinc (Zn)	7440-66-6	0.000007	700	260.831679199
		Nickel (Ni)	7440-02-0	0.000000	0	0
		Silicon (Si)	7440-21-3	0.000000	0	0
		Magnesium (Mg)	7439-95-4	0.000000	0	0
		Tin (Sn)	7440-31-5	0.000000	0	0
		Lead Frame Total:		0.010700	1000000	398702.875
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.000710	1000000	26456.9160156
		External Plating Total:		0.000710	1000000	26456.9160156
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000086	1000000	3204.52783203
		Internal Plating Total:		0.000086	1000000	3204.52783203
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000611	750000	22767.0527344
		Tin (Sn)	7440-31-5	0.000000	0	0
		Lead (Pb)	7439-92-1	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.000000	0	0
		Indium (In)	7440-74-6	0.000000	0	0
		Metal Oxide		0.000000	0	0
		Antimony (Sb)	7440-36-0	0.000000	0	0
		Resin (EP)		0.000204	250000	7601.43798828
		Die Attach Total:		0.000815	1000000	30368.4902344
Encapsulation	MULTIAROMATIC RESIN BeSb FREE	Resin (EP)		0.001639	130000	61817.5742188
		Bromine (Br)	40093-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.010591	830000	394641.34375
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.000447	35000	16656.09375
		Carbon Black (C)	1333-86-4	0.000064	5000	2384.76489258
		Encapsulation Total:		0.012761	1000000	475499.75
Band Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000039	1000000	3316.3137207

TOTAL MASS (g): 0.026837