

LINEAR TECHNOLOGY MATERIALS DECLARATION

(Engineering Calculation)

MSOP

LTC4252-1CMS8#TRPBF

(printed on: 2014-01-20 01:39:24)

TOTAL MASS (g): 0.026353

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	0.001312	1000000	47985.5546875		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.010433	975000	395891.8125		
		Iron (Fe)	7439-89-6	0.000257	24000	9752.20117188		
		Phosphorus (P)	7723-14-0	0.000003	300	113.838928223		
		Zinc (Zn)	7440-66-6	0.000007	700	265.624145508		
		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	406025.5
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000710	1000000	26942.8242188		
External Plating Total:						0.000710	1000000	26942.8242188
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000086	1000000	3263.38256836		
Internal Plating Total:						0.000086	1000000	3263.38256836
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000221	750000	19770.0253906		
		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)		0.000174	250000	6602.65771484		
		Die Attach Total:				0.000675	1000000	26372.6816406
		Encapsulation	MULTIAROMATIC RESIN BzSb FREE	Resin (EP)		0.001659	130000	62952.921875
				Bromine (Br)	40093-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.010591	830000	401889.34375		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000447	35000	16962		
Carbon Black (C)	1333-86-4			0.000064	5000	2428.56347656		
Encapsulation Total:						0.012761	1000000	484232.8125
Bond Wire Estimated	AFW/TANAKA/Kn			Gold (Au)	7440-57-5	0.000089	1000000	3377.22119141

TOTAL MASS (g): 0.026353