

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC4151IMS-1#TRPBF

(Engineering Calculation)

MSOP

(printed on: 2014-01-20 00:19:37)

TOTAL MASS (g): 0.027854

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	0.002422	1000000	87312.239375		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.010433	975000	374559.84375		
		Iron (Fe)	7439-89-6	0.000257	24000	9226.6732812		
		Phosphorus (P)	7723-14-0	0.000003	300	107.70460962		
		Zinc (Zn)	7440-66-6	0.000007	700	251.310180664		
		Nickel (Ni)	7440-02-0	0.000000	0	0		
		Silicon (Si)	7440-21-3	0.000000	0	0		
		Magnesium (Mg)	7439-99-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead Frame Total:			0.010700	1000000	384145.5625	
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000710	1000000	25490.9277344		
External Plating Total:					0.000710	1000000	25490.9277344	
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000086	1000000	3887.52490234		
Internal Plating Total:					0.000086	1000000	3887.52490234	
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000790	750000	28362.1484375		
		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)		0.000263	250000	9442.08201125		
		Die Attach Total:			0.001053	1000000	37804.2304688	
		Encapsulation	MULTIAROMATIC RESIN BUSH FREE	Resin (EP)		0.001659	130000	59560.5117188
				Bromine (Br)	40093-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.010591	830000	380232.3125		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000447	35000	16047.9492188		
Carbon Black (C)	1333-86-4			0.000064	5000	2297.69287109		
Encapsulation Total:					0.012761	1000000	458138.4375	
Bond Wire Estimated	AFW/TANAKA/Kn			Gold (Au)	7440-57-5	0.000112	1000000	4020.96289062

TOTAL MASS (g): 0.027854