

LINEAR TECHNOLOGY MATERIALS DECLARATION

LT1513CR#PBF

(Engineering Calculation)

DDPAK

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**TOTAL MASS 1.404305
(g):**

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	0.004354	1000000	3100.46655273		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.852419	998500	607004.25		
		Iron (Fe)	7439-89-6	0.000000	0	0		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		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	0.001281	1500	912.195068359		
Lead Frame Total:				0.853700	1000000	607916.4375		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.010925	1000000	7779.59130859		
		External Plating Total:				0.010925	1000000	7779.59130859
		Inter. Plating Ni	7440-02-0	0.005000	714285.6875	3560.48046875		
		Inter. Plating Ag	7440-22-4	0.002000	285714.28125	1424.19226074		
		Internal Plating Total:				0.007000	1000000	4984.67285156
Die Attach	95Pb / 5 Sn	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000103	50000	73.3458938599		
		Lead (Pb)	7439-92-1	0.001958	950000	1394.28417969		
		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)		0.000000	0	0		
Die Attach Total:				0.002061	1000000	1467.63012695		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.054044	103000	38484.5195312		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.469607	895000	334405.3125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.001049	2000	746.988769531		
		Encapsulation Total:				0.524700	1000000	373636.8125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.001565	1000000	1114.43041992		

TOTAL MASS (g): 1.404305