

LINEAR TECHNOLOGY MATERIALS DECLARATION

1tc2965cms#pbf

(Engineering Calculation)

MSOP

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TOTAL MASS (g) : 0.036154

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	0.001460	1000000	40382.78125
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013845	975000	382944.9375
		Iron (Fe)	7439-89-6	0.000355	25000	9819.10058594
		Phosphorus (P)	7723-14-0	0.000004	300	110.637756348
		Zinc (Zn)	7440-66-6	0.000010	700	276.594360352
		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:				0.014214	1001000	393151.25
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.000710	1000000	19638.8925781
		External Plating Total:		0.000710	1000000	19638.8925781
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000086	1000000	2378.71166992
Internal Plating Total:				0.000086	1000000	2378.71166992
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000558	750000	15433.9658203
		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)		0.000186	250000	5144.65576172
Die Attach Total:				0.000744	1000000	20578.6230469
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.002439	130000	67461.375
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.015571	830000	430685.09375
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.000657	35000	18172.2519531
		Carbon Black (C)	1333-86-4	0.000094	5000	2599.98730469
		Encapsulation Total:				0.018761
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000179	1000000	4951.03955078
					TOTAL MASS (g) :	0.036154