

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t1351cms8#trpbf		(Engineering Calculation)				MSOP	
(printed on: 2020-07-11 18:06:41)					TOTAL MASS (g) :		0.027636
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	0.002233	1000000	80800.3359375	
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0	
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0	
		Iron (Fe)	7439-89-6	0.006206	580000	224561.96875	
		Phosphorus (P)	7723-14-0	0.000000	0	0	
		Zinc (Zn)	7440-66-6	0.000000	0	0	
		Nickel (Ni)	7440-02-0	0.004494	420000	162613.84375	
		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	387175.8125	
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0	
		Exter. Plating Sn	7440-31-5	0.000710	1000000	25692.0058594	
		External Plating Total:		0.000710	1000000	25692.0058594	
		Inter. Plating Ni	7440-02-0	0.000000	0	0	
		Inter. Plating Ag	7440-22-4	0.000086	1000000	3111.88037109	
		Internal Plating Total:		0.000086	1000000	3111.88037109	
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000746	750000	26993.7519531	
		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)		0.000249	250000	9009.97851562	
		Die Attach Total:		0.000995	1000000	36003.7304688	
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001659	130000	60030.3359375	
		Bromine (Br)	40039-93-8	0.000000	0	0	
		Silica (SiO2)	60676-86-0	0.010591	830000	383231.65625	
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0	
		Metal Hydroxide		0.000447	35000	16174.5400391	
		Carbon Black (C)	1333-86-4	0.000064	5000	2315.81787109	
		Encapsulation Total:		0.012761	1000000	461752.34375	
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000151	1000000	5463.8828125	
					TOTAL MASS (g) :		0.027636