

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t1355cs8#pbf

(Engineering Calculation)

SOIC

(printed on: 2020-07-11 18:25:45)

TOTAL MASS (g) : 0.075452

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	0.003703	1000000	49077.65625		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000154	1000000	2041.03674316		
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0		
		Iron (Fe)	7439-89-6	0.014071	580000	186489.796875		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		Nickel (Ni)	7440-02-0	0.010189	420000	135039.765625		
		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:				0.024260	1000000	321529.53125		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001477	1000000	19573.4375		
		External Plating Total:				0.001477	1000000	19573.4375
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000194	1000000	2571.17602539		
Internal Plating Total:				0.000194	1000000	2571.17602539		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001048	750000	13889.6513672		
		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)		0.000349	250000	4625.46679688		
Die Attach Total:				0.001397	1000000	18515.1191406		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006612	150000	87632.046875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.036148	820000	479087		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.001102	25000	14605.3408203		
		Carbon Black (C)	1333-86-4	0.000220	5000	2915.7668457		
		Encapsulation Total:				0.044082	1000000	584240.125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000185	1000000	2451.89477539		
					TOTAL MASS (g) :	0.075452		