

LINEAR TECHNOLOGY MATERIALS DECLARATION

lt1681esw#pbf

(Engineering Calculation)

SOIC WIDE

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TOTAL MASS (g) : 0.545476

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	0.007332	1000000	13441.4775391		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.153163	975000	280787.9375		
		Iron (Fe)	7439-89-6	0.003770	24000	6911.3984375		
		Phosphorus (P)	7723-14-0	0.000047	300	86.1633224487		
		Zinc (Zn)	7440-66-6	0.000110	700	201.658843994		
		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:				0.157090	1000000	287987.15625		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.005974	1000000	10951.3164062		
		External Plating Total:				0.005974	1000000	10951.3164062
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001257	1000000	2304.41064453		
Internal Plating Total:				0.001257	1000000	2304.41064453		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001708	750000	3131.21166992		
		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)		0.000569	250000	1043.1262207		
Die Attach Total:				0.002277	1000000	4174.33837891		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.038213	103000	70054.4453125		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.332045	895000	608725.5		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000742	2000	1360.28051758		
		Encapsulation Total:				0.371000	1000000	680140.25
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000546	1000000	1000.96118164		
					TOTAL MASS (g) :	0.545476		