

LINEAR TECHNOLOGY MATERIALS DECLARATION

(Engineering Calculation)

MSOP-Exposed

LT3686AHMSE#TRPBF

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TOTAL MASS (g): 0.036135

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	0.001286	1000000	28356.1367188		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013845	975000	381146.28125		
		Iron (Fe)	7439-89-6	0.000341	24000	9436.828125		
		Phosphorus (P)	7723-14-0	0.000004	300	110.695922852		
		Zinc (Zn)	7440-66-6	0.000010	700	276.739807129		
		Nickel (Ni)	7440-02-0	0.000000	0	0		
		Silicon (Si)	7440-21-3	0.000000	0	0		
		Magnesium (Mg)	7439-96-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead Frame Total:				0.014290	1000000	392978.53125
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000710	1000000	19649.2167969		
External Plating Total:						0.000710	1000000	19649.2167969
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000086	1000000	2379.9621582		
Internal Plating Total:						0.000086	1000000	2379.9621582
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000574	750000	15884.8652344		
		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)		0.000191	250000	5285.72989847		
		Die Attach Total:				0.000765	1000000	21170.5957831
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.002439	130000	67496.8359375
Bromine (Br)	40093-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.015571	830000	430911.5625		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000657	35000	18181.8048875		
Carbon Black (C)	1333-86-4			0.000094	5000	2601.35449219		
Encapsulation Total:						0.018761	1000000	519191.5625
Bond Wire Estimated	AFW/TANAKA/Kn			Gold (Au)	7440-57-5	0.000227	1000000	6281.99316406

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