

LINEAR TECHNOLOGY MATERIALS DECLARATION

(Engineering Calculation)

SOIC Exposed Pad

LTC6090HSSE#PBF

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TOTAL MASS (g): 0.073008

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	0.002750	1000000	37667.1015625		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.023398	964450	320485.4375		
		Iron (Fe)	7439-89-6	0.000547	22560	7492.32910156		
		Phosphorus (P)	7723-14-0	0.000006	240	82.1827774048		
		Zinc (Zn)	7440-66-6	0.000010	1250	410.913879395		
		Nickel (Ni)	7440-02-0	0.000279	11500	3821.49902344		
		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	332292.34375
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000000	1000000	0		
External Plating Total:						0.000000	0	
Inter. Plating Ni	7440-02-0			0.000100	1000000	4109.13916016		
Inter. Plating Ag	7440-22-4			0.000000	0	0		
Internal Plating Total:						0.000100	1000000	4109.13916016
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000850	750000	11642.5595703		
		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)		0.000283	250000	3576.28759766		
		Die Attach Total:				0.001133	1000000	15518.8466797
		Encapsulation	MULTIAROMATIC RESIN BzSb FREE	Resin (EP)		0.004571	103000	62609.5742188
Bromine (Br)	40093-93-8			0.000000	0	0		
Silica (SiO2)	60676-86-0			0.039720	895000	544049.9375		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000089	2000	1219.04443359		
Encapsulation Total:						0.044380	1000000	607878.625
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000185	1000000	2533.96875		

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