

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC4257IS8-1#PBF

(Engineering Calculation)

SQC

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TOTAL MASS (g): 0.073844

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	0.002387	1000000	2324.967969		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.023653	975000	320311.03125		
		Iron (Fe)	7439-89-6	0.000582	24000	7881.49609375		
		Phosphorus (P)	7723-14-0	0.000007	300	94.7946243286		
		Zinc (Zn)	7440-66-6	0.000017	700	230.215515137		
		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:				0.024259	1000000	328517.53125
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.001477	1000000	1999.6601562		
External Plating Total:						0.001477	1000000	1999.6601562
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000194	1000000	2627.16503906		
Internal Plating Total:						0.000194	1000000	2627.16503906
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000778	750000	10535.7451172		
		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)		0.000259	250000	3507.40887891		
		Die Attach Total:				0.001037	1000000	14043.1455078
		Encapsulation	MULTIAROMATIC RESIN BESS FREE	Resin (EP)		0.006657	150000	90149.6875
				Bromine (Br)	40093-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.036392	820000	492821.6875		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.001110	25000	15031.7177734		
Carbon Black (C)	1333-86-4			0.000222	5000	3006.34375		
Encapsulation Total:						0.044381	1000000	601011.4375
Lead Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000109	1000000	1476.08776855		

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