

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc1645cs8#pbf

(Engineering Calculation)

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(printed on: 2020-07-11 21:41:54)

TOTAL MASS (g) : 0.074488

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	0.002895	1000000	38865.3984375		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.023653	975000	317541.71875		
		Iron (Fe)	7439-89-6	0.000582	24000	7813.35498047		
		Phosphorus (P)	7723-14-0	0.000007	300	93.9750595093		
		Zinc (Zn)	7440-66-6	0.000017	700	228.225143433		
		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	325677.28125		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001477	1000000	19826.75		
		External Plating Total:				0.001477	1000000	19826.75
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000194	1000000	2604.45141602		
Internal Plating Total:				0.000194	1000000	2604.45141602		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000880	750000	11814.0078125		
		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)		0.000293	250000	3933.52758789		
Die Attach Total:				0.001173	1000000	15747.5341797		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006657	150000	89370.28125		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.036392	820000	488562.875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.001110	25000	14901.7578125		
		Carbon Black (C)	1333-86-4	0.000222	5000	2980.35180664		
		Encapsulation Total:				0.044381	1000000	595815.3125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000109	1000000	1463.32592773		
					TOTAL MASS (g) :	0.074488		