

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc4090edjc-5#pbf

(Engineering Calculation)

DFN 6mm x 3mm Exp. Pad

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TOTAL MASS (g) : 0.046602

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	0.001159	1000000	24870.1484375		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.021187	975000	454636.59375		
		Iron (Fe)	7439-89-6	0.000522	24000	11201.2236328		
		Phosphorus (P)	7723-14-0	0.000007	300	150.207962036		
		Zinc (Zn)	7440-66-6	0.000015	700	321.874206543		
		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:				0.021731	1000000	466309.90625		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001189	1000000	25515.0800781		
		External Plating Total:				0.001189	1000000	25515.0800781
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000483	1000000	10364.3496094		
Internal Plating Total:				0.000483	1000000	10364.3496094		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000628	750000	13475.8007812		
		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)		0.000209	250000	4484.78125		
Die Attach Total:				0.000837	1000000	17960.5820312		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.002737	130000	58731.3125		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.018107	860000	388545.09375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000211	10000	4527.69726562		
		Encapsulation Total:				0.021055	1000000	451804.09375
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000148	1000000	3175.82592773		
					TOTAL MASS (g) :	0.046602		