

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc4089edjc-1#pbf

(Engineering Calculation)

DFN 6mm x 3mm Exp. Pad

(printed on: 2020-07-11 22:31:06)

TOTAL MASS (g) : 0.046778

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	0.001268	1000000	27106.7265625		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.021187	975000	452926.03125		
		Iron (Fe)	7439-89-6	0.000522	24000	11159.0791016		
		Phosphorus (P)	7723-14-0	0.000007	300	149.642822266		
		Zinc (Zn)	7440-66-6	0.000015	700	320.663146973		
		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	464555.4375		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001189	1000000	25419.0800781		
		External Plating Total:				0.001189	1000000	25419.0800781
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000483	1000000	10325.3544922		
Internal Plating Total:				0.000483	1000000	10325.3544922		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000678	750000	14493.9746094		
		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)		0.000226	250000	4831.32519531		
Die Attach Total:				0.000904	1000000	19325.3007812		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.002737	130000	58510.3359375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.018107	860000	387083.21875		
		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	4510.66210938		
		Encapsulation Total:				0.021055	1000000	450104.21875
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000148	1000000	3163.87670898		
					TOTAL MASS (g) :	0.046778		