

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t1763mpde-3.3

(Engineering Calculation)

DFN 4mm X 3mm Exp. Pad

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TOTAL MASS (g) : 0.0317060016096

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	0.001864	1000000	58790
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.012783	975000	403173
		Iron (Fe)	7439-89-6	0.000315	24000	9935
		Phosphorus (P)	7723-14-0	0.000004	300	126
		Zinc (Zn)	7440-66-6	0.000009	700	284
		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:				0.013111	1000000	413518
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000096	149766	3028
		Exter. Plating Sn	7440-31-5	0.000545	850234	17189
		External Plating Total:		0.000641	1000000	20217
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000295	1000000	9304
Internal Plating Total:				0.000295	1000000	9304
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000876	750000	27629
		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)		0.000292	250000	9210
Die Attach Total:				0.001168	1000000	36839
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001888	130000	59547
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.012487	860000	393837
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.000000	0	0
		Carbon Black (C)	1333-86-4	0.000145	10000	4573
		Encapsulation Total:				0.014520
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000107	1000000	3375
					TOTAL MASS (g) :	0.0317060016096