

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

DFN 5mm X 3mm Exp. Pad

(printed on: 2020-07-11 19:03:49)

TOTAL MASS (g) : 0.039711

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	0.002108	1000000	53083.53125		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.017069	974800.0625	429830.5625		
		Iron (Fe)	7439-89-6	0.000411	23500	10349.7773438		
		Phosphorus (P)	7723-14-0	0.000015	850	377.729095459		
		Zinc (Zn)	7440-66-6	0.000015	850	377.729095459		
		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:				0.017510	1000000	440935.78125		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000817	1000000	20573.6972656		
		External Plating Total:				0.000817	1000000	20573.6972656
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000391	1000000	9846.13867188		
Internal Plating Total:				0.000391	1000000	9846.13867188		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000966	750000	24325.7539062		
		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)		0.000322	250000	8108.58496094		
Die Attach Total:				0.001288	1000000	32434.3398438		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.002274	130000	57263.734375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.015041	860000	378761.5625		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000175	10000	4406.83984375		
		Encapsulation Total:				0.017490	1000000	440432.125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000107	1000000	2694.4675293		
					TOTAL MASS (g) :	0.039711		