

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

QFN 3mm X 3mm Exp. Pad

(printed on: 2020-07-11 16:54:12)

TOTAL MASS (g) : 0.023028

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	0.001398	1000000	60709.3398438		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.008752	975000	380063.03125		
		Iron (Fe)	7439-89-6	0.000215	24000	9336.55761719		
		Phosphorus (P)	7723-14-0	0.000003	300	130.277542114		
		Zinc (Zn)	7440-66-6	0.000006	700	260.555084229		
		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:				0.008976	1000000	389790.4375		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000413	1000000	17924.5058594		
		External Plating Total:				0.000413	1000000	17924.5058594
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000203	1000000	8815.44824219		
Internal Plating Total:				0.000203	1000000	8815.44824219		
Die Attach	ELECTRICALLY INSULATING ADHESIVE	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000000	0	0		
		Lead (Pb)	7439-92-1	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.000016	100000	694.813598633		
		Indium (In)	7440-74-6	0.000000	0	0		
		Metal Oxide		0.000047	300000	2041.01501465		
		Antimony (Sb)	7440-36-0	0.000000	0	0		
		Resin (EP)		0.000095	600000	4125.45605469		
Die Attach Total:				0.000158	1000000	6861.28369141		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.001534	130000	66615.25		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.010148	860000	440685.5		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000118	10000	5124.25048828		
		Encapsulation Total:				0.011800	1000000	512425.0625
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000080	1000000	3474.06787109		
					TOTAL MASS (g) :	0.023028		