

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

QFN 3mm X 2mm Exp. Pad

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TOTAL MASS (g) : 0.014786

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	0.000976	1000000	66010.140625
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.005090	975000	344253.71875
		Iron (Fe)	7439-89-6	0.000125	24000	8454.16796875
		Phosphorus (P)	7723-14-0	0.000002	300	135.266693115
		Zinc (Zn)	7440-66-6	0.000004	700	270.53338623
		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:		0.005221	1000000	353113.6875
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.000185	1000000	12485.5546875
		External Plating Total:		0.000185	1000000	12485.5546875
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000103	1000000	6966.234375
		Internal Plating Total:		0.000103	1000000	6966.234375
Die Attach	SnAg Cap	Silver (Ag)	7440-22-4	0.000019	20000	1285.03344727
		Tin (Sn)	7440-31-5	0.000912	980000	61681.609375
		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)		0.000000	0	0
		Die Attach Total:		0.000931	1000000	62966.6445312
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.000958	130000	64792.7460938
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.006338	860000	428660.125
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.000000	0	0
		Carbon Black (C)	1333-86-4	0.000074	10000	5004.86767578
		Encapsulation Total:		0.007370	1000000	498457.71875
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000000	0	0
					TOTAL MASS (g) :	0.014786