

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

QFN MultiPad 5 X 9 X 0.9mm

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TOTAL MASS (g) : 0.155644

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	0.001573	1000000	10106.375		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.076937	975000	494312.875		
		Iron (Fe)	7439-89-6	0.001894	24000	12168.7695312		
		Phosphorus (P)	7723-14-0	0.000024	300	154.197723389		
		Zinc (Zn)	7440-66-6	0.000055	700	353.369781494		
		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:				0.078910	1000000	506989.25		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.003848	1000000	24725.1894531		
		External Plating Total:				0.003848	1000000	24725.1894531
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001694	1000000	10883.7890625		
Internal Plating Total:				0.001694	1000000	10883.7890625		
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	0.000009	50000	57.8241462708		
		Indium (In)	7440-74-6	0.000000	0	0		
		Metal Oxide		0.000051	300000	327.670135498		
		Antimony (Sb)	7440-36-0	0.000000	0	0		
		Resin (EP)		0.000111	650000	713.164428711		
Die Attach Total:				0.000171	1000000	1098.65881348		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.008945	130000	57470.7773438		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.059177	860000	380206.59375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000688	10000	4420.33447266		
		Encapsulation Total:				0.068810	1000000	442097.71875
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000638	1000000	4099.08984375		
					TOTAL MASS (g) :	0.155644		