

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

QFN MultiPad 7 X 8 X 0.9 mm

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TOTAL MASS (g) : 0.159795

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	0.002566	1000000	16058.0410156		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.076937	975000	481472.125		
		Iron (Fe)	7439-89-6	0.001894	24000	11852.6621094		
		Phosphorus (P)	7723-14-0	0.000024	300	150.192138672		
		Zinc (Zn)	7440-66-6	0.000055	700	344.1902771		
		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	493819.21875		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.003848	1000000	24082.9023438		
		External Plating Total:				0.003848	1000000	24082.9023438
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001694	1000000	10601.0605469		
Internal Plating Total:				0.001694	1000000	10601.0605469		
Die Attach	95Sn / 5Sb	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.001805	950000	11295.6992188		
		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	0.000095	50000	594.510498047		
		Resin (EP)		0.000000	0	0		
Die Attach Total:				0.001900	1000000	11890.2099609		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.008945	130000	55977.859375		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.059177	860000	370329.96875		
		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	4305.50732422		
		Encapsulation Total:				0.068810	1000000	430613.34375
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.002067	1000000	12935.296875		
					TOTAL MASS (g) :	0.159795		