

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

QFN-FCOL 3mm X 5mm Exp. Pad

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TOTAL MASS (g) : 0.163277

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	0.002662	1000000	16303.6044922		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013133	975000	80433.96875		
		Iron (Fe)	7439-89-6	0.000323	24000	1978.23596191		
		Phosphorus (P)	7723-14-0	0.000004	300	24.4982776642		
		Zinc (Zn)	7440-66-6	0.000009	700	55.121131897		
		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:				0.013469	1000000	82491.828125		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000626	1000000	3832.56420898		
		External Plating Total:				0.000626	1000000	3832.56420898
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000302	1000000	1849.61999512		
Internal Plating Total:				0.000302	1000000	1849.61999512		
Die Attach	98.0Sn2.0Ag Solder Cap	Silver (Ag)	7440-22-4	0.000038	20000	232.733642578		
		Tin (Sn)	7440-31-5	0.001880	980000	11514.1904297		
		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:				0.001918	1000000	11746.9257812		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.018759	130000	114890.796875		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.124098	860000	760046.8125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.001443	10000	8837.75390625		
		Encapsulation Total:				0.144300	1000000	883775.4375
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000000	0	0		
					TOTAL MASS (g) :	0.163277		