

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC3374EUF#PBF

(Engineering Calculation)

QFN 5mm X 7mm Exp. Pad

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TOTAL MASS (g): 0.09081

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	0.002013	1000000	41986.8220312	
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0	
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.037381	975000	411640.34375	
		Iron (Fe)	7439-89-6	0.000920	24000	10131.0595703	
		Phosphorus (P)	7723-14-0	0.000012	300	132.144241333	
		Zinc (Zn)	7440-66-6	0.000027	700	297.324544443	
		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:			0.038340	1000000	422208.84375
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0	
		Exter. Plating Sn	7440-31-5	0.001850	1000000	20370.6035156	
		External Plating Total:			0.001850	1000000	20370.6035156
		Inter. Plating Ni	7440-02-0	0.000000	0	0	
		Inter. Plating Ag	7440-22-4	0.000831	1000000	9150.98828125	
		Internal Plating Total:			0.000831	1000000	9150.98828125
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001470	750000	16187.6699219	
		Tin (Sn)	7440-31-5	0.000000	0	0	
		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)		0.000490	250000	5395.88964844	
		Die Attach Total:			0.001960	1000000	21583.558938
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.005689	130000
Bromine (Br)	40079-03-8			0.000000	0	0	
Silica (SiO2)	60676-86-0			0.037634	860000	414426.34375	
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0	
Metal Hydroxide				0.000000	0	0	
Carbon Black (C)	1333-86-4			0.000438	10000	4523.26464844	
Encapsulation Total:					0.043761	1000000	481897.03125
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000255	1000000	2808.06518555	

TOTAL MASS (g): 0.090810