

LINEAR TECHNOLOGY MATERIALS DECLARATION

LT3745EUJ#TRPBF

(Engineering Calculation)

QFN 6mm X 6mm Exp. Pad

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TOTAL MASS (g): 0.10462

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	0.002157	1000000	20175.9121094		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.043661	975000	41729.875		
		Iron (Fe)	7439-89-6	0.001075	24000	10275.2949219		
		Phosphorus (P)	7723-14-0	0.000013	300	124.259168896		
		Zinc (Zn)	7440-66-6	0.000031	700	296.310821533		
		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:				0.044780	1000000	428025.75
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.004194	1000000	40086.8476562		
External Plating Total:						0.004194	1000000	40086.8476562
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000108	1000000	1032.30871582		
Internal Plating Total:						0.000108	1000000	1032.30871582
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001255	750000	11995.8085938		
		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)		0.000418	250000	3995.41674805		
		Die Attach Total:				0.001673	1000000	15991.2255809
		Encapsulation	MULTIAROMATIC RESIN BzSb FREE	Resin (EP)		0.006540	130000	62512.0234375
				Bromine (Br)	40093-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.043267	860000	413563.875		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.000503	10000	4807.88134766		
Encapsulation Total:						0.050310	1000000	480883.78125
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000398	1000000	3804.24853516		

TOTAL MASS (g): 0.104620