

LINEAR TECHNOLOGY MATERIALS DECLARATION

LT3745EU#PBF

(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	0.000011	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)	40039-93-8	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
Band Wire Estimated	AFW/TANAKA/ Kti	Gold (Au)	7440-57-5	0.000398	1000000	3804.24853516

TOTAL MASS (g): 0.104620