

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc2668cuj-16#trpbf

(Engineering Calculation)

QFN 6mm X 6mm Exp. Pad

(printed on: 2020-07-11 18:42:20)

TOTAL MASS (g) : 0.113592

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	0.009899	1000000	87145.3125		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.043661	975000	384367.25		
		Iron (Fe)	7439-89-6	0.001075	24000	9463.70507812		
		Phosphorus (P)	7723-14-0	0.000013	300	114.444793701		
		Zinc (Zn)	7440-66-6	0.000031	700	272.906829834		
		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	394218.3125		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.004194	1000000	36920.6054688		
		External Plating Total:				0.004194	1000000	36920.6054688
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000108	1000000	950.772216797		
Internal Plating Total:				0.000108	1000000	950.772216797		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.002927	750000	25767.6855469		
		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)		0.000976	250000	8592.16308594		
Die Attach Total:				0.003903	1000000	34359.8515625		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006540	130000	57574.5351562		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.043267	860000	380898.71875		
		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	4428.13330078		
		Encapsulation Total:				0.050310	1000000	442901.375
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000398	1000000	3503.77172852		
					TOTAL MASS (g) :	0.113592		