

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc4151is-2#trpbf

(Engineering Calculation)

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TOTAL MASS (g) : 0.154778

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	0.002432	1000000	15712.8574219		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.051070	975000	329957.09375		
		Iron (Fe)	7439-89-6	0.001257	24000	8121.32470703		
		Phosphorus (P)	7723-14-0	0.000016	300	103.374061584		
		Zinc (Zn)	7440-66-6	0.000037	700	239.052536011		
		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:				0.052380	1000000	338420.84375		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002954	1000000	19083.5234375		
		External Plating Total:				0.002954	1000000	19083.5234375
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000419	1000000	2707.1081543		
Internal Plating Total:				0.000419	1000000	2707.1081543		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000790	750000	5104.09423828		
		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)		0.000263	250000	1699.21105957		
Die Attach Total:				0.001053	1000000	6803.30517578		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.012389	130000	80043.8203125		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.079099	830000	511049.03125		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.003336	35000	21553.4921875		
		Carbon Black (C)	1333-86-4	0.000477	5000	3081.83911133		
		Encapsulation Total:				0.095301	1000000	615728.1875
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000239	1000000	1544.15002441		
					TOTAL MASS (g) :	0.154778		