

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc3891mpfe#trpbf

(Engineering Calculation)

TSSOP Exp. Pad

(printed on: 2020-07-11 22:29:34)

TOTAL MASS (g) : 0.071013

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	0.002090	1000000	29431.0957031		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.024424	975000	343935.4375		
		Iron (Fe)	7439-89-6	0.000601	24000	8463.19921875		
		Phosphorus (P)	7723-14-0	0.000008	300	112.654899597		
		Zinc (Zn)	7440-66-6	0.000018	700	253.473556519		
		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:				0.025051	1000000	352764.75		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.001770	1000000	24929.5292969		
		External Plating Total:				0.001770	1000000	24929.5292969
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000683	1000000	9617.91210938		
Internal Plating Total:				0.000683	1000000	9617.91210938		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000709	750000	9984.04101562		
		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)		0.000236	250000	3323.31982422		
Die Attach Total:				0.000945	1000000	13307.3603516		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006015	150000	84702.40625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.032882	820000	463039.84375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.001003	25000	14124.1074219		
		Carbon Black (C)	1333-86-4	0.000201	5000	2830.4543457		
		Encapsulation Total:				0.040101	1000000	564696.8125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000373	1000000	5252.53466797		
					TOTAL MASS (g) :	0.071013		