

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc489csw#trpbf

(Engineering Calculation)

SOIC WIDE

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TOTAL MASS (g) : 0.246631

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	0.002487	1000000	10083.8759766		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000104	1000000	421.681976318		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.138021	975000	559624.75		
		Iron (Fe)	7439-89-6	0.003397	24000	13773.5927734		
		Phosphorus (P)	7723-14-0	0.000042	300	170.294631958		
		Zinc (Zn)	7440-66-6	0.000099	700	401.408782959		
		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:				0.141559	1000000	573970		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.004771	1000000	19346.1542969		
		External Plating Total:				0.004771	1000000	19346.1542969
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001132	1000000	4589.84570312		
Internal Plating Total:				0.001132	1000000	4589.84570312		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000806	750000	3268.03540039		
		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)		0.000269	250000	1090.69665527		
Die Attach Total:				0.001075	1000000	4358.73193359		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.009795	103000	39715.140625		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.085115	895000	345110.21875		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000190	2000	770.380554199		
		Encapsulation Total:				0.095100	1000000	385595.71875
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000403	1000000	1634.0177002		
					TOTAL MASS (g) :	0.246631		