

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t1020csw#trpbf

(Engineering Calculation)

SOIC WIDE

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TOTAL MASS (g) : 0.248655

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	0.004009	1000000	16122.7177734		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.138021	975000	555069.5		
		Iron (Fe)	7439-89-6	0.003397	24000	13661.4785156		
		Phosphorus (P)	7723-14-0	0.000042	300	168.908477783		
		Zinc (Zn)	7440-66-6	0.000099	700	398.141418457		
		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	569298		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.004771	1000000	19188.6796875		
		External Plating Total:				0.004771	1000000	19188.6796875
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.001132	1000000	4552.48583984		
Internal Plating Total:				0.001132	1000000	4552.48583984		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001110	750000	4464.00976562		
		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)		0.000370	250000	1488.0032959		
Die Attach Total:				0.001480	1000000	5952.01318359		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.009816	103000	39476.328125		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.085294	895000	343020.9375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000000	0	0		
		Carbon Black (C)	1333-86-4	0.000191	2000	768.131408691		
		Encapsulation Total:				0.095301	1000000	383265.40625
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000403	1000000	1620.71716309		
					TOTAL MASS (g) :	0.248655		