

LINEAR TECHNOLOGY MATERIALS DECLARATION

1tc2921cgn-3.3#trpbf

(Engineering Calculation)

SSOP

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TOTAL MASS (g) : 0.085153

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	0.005622	1000000	66022.2734375		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.029933	975000	351519.90625		
		Iron (Fe)	7439-89-6	0.000737	24000	8655.00195312		
		Phosphorus (P)	7723-14-0	0.000009	300	105.692024231		
		Zinc (Zn)	7440-66-6	0.000021	700	246.614715576		
		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:				0.030700	1000000	360527.21875		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.002272	1000000	26682.3046875		
		External Plating Total:				0.002272	1000000	26682.3046875
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000246	1000000	2888.91503906		
Internal Plating Total:				0.000246	1000000	2888.91503906		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001428	750000	16769.8007812		
		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)		0.000476	250000	5589.93310547		
Die Attach Total:				0.001904	1000000	22359.7324219		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006623	150000	77777.578125		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.036203	820000	425152		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.001104	25000	12964.8876953		
		Carbon Black (C)	1333-86-4	0.000221	5000	2595.32617188		
		Encapsulation Total:				0.044151	1000000	518489.84375
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000258	1000000	3029.83764648		
					TOTAL MASS (g) :	0.085153		