

LINEAR TECHNOLOGY MATERIALS DECLARATION

1t2078is8#pbf

(Engineering Calculation)

SOIC

(printed on: 2020-07-11 20:22:45)

TOTAL MASS (g) : 0.075816

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	0.003996	1000000	52706.6601562
Die Coat	Dow Corning	Silicone	69430-27-9	0.000166	1000000	2189.51586914
Lead Frame	A42	Copper (Cu)	7440-50-8	0.000000	0	0
		Iron (Fe)	7439-89-6	0.014071	580000	185594.4375
		Phosphorus (P)	7723-14-0	0.000000	0	0
		Zinc (Zn)	7440-66-6	0.000000	0	0
		Nickel (Ni)	7440-02-0	0.010189	420000	134391.421875
		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:		0.024260	1000000	319985.875
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.001477	1000000	19479.4628906
		External Plating Total:		0.001477	1000000	19479.4628906
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000194	1000000	2558.83154297
		Internal Plating Total:		0.000194	1000000	2558.83154297
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.001109	750000	14627.5478516
		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	4880.24560547
		Die Attach Total:		0.001479	1000000	19507.7929688
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.006609	150000	87171.7421875
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.036129	820000	476536.28125
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.001101	25000	14522.0302734
		Carbon Black (C)	1333-86-4	0.000220	5000	2901.76806641
		Encapsulation Total:		0.044059	1000000	581131.8125
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000185	1000000	2440.12280273
					TOTAL MASS (g) :	0.075816