

LINEAR TECHNOLOGY MATERIALS DECLARATION

1tc3245mpmse#pbf

(Engineering Calculation)

MSOP-Exposed

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TOTAL MASS (g) : 0.037967

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	0.002889	1000000	76092.3515625		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013845	975000	364658.5625		
		Iron (Fe)	7439-89-6	0.000341	24000	8981.47851562		
		Phosphorus (P)	7723-14-0	0.000004	300	105.35458374		
		Zinc (Zn)	7440-66-6	0.000010	700	263.386474609		
		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:				0.014200	1000000	374008.78125		
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.000710	1000000	18701.0976562		
		External Plating Total:				0.000710	1000000	18701.0976562
		Inter. Plating Ni	7440-02-0	0.000000	0	0		
		Inter. Plating Ag	7440-22-4	0.000086	1000000	2265.12353516		
Internal Plating Total:				0.000086	1000000	2265.12353516		
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000890	750000	23441.3964844		
		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)		0.000297	250000	7822.57763672		
Die Attach Total:				0.001187	1000000	31263.9726562		
Encapsulation	MULTI-AROMATIC RESIN Br/Sb FREE	Resin (EP)		0.002439	130000	64239.9570312		
		Bromine (Br)	40039-93-8	0.000000	0	0		
		Silica (SiO2)	60676-86-0	0.015571	830000	410119.09375		
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0		
		Metal Hydroxide		0.000657	35000	17304.4921875		
		Carbon Black (C)	1333-86-4	0.000094	5000	2475.83276367		
		Encapsulation Total:				0.018761	1000000	494139.34375
Bond Wire Estimated	AFW/TANAKA/ Kn	Gold (Au)	7440-57-5	0.000134	1000000	3529.37866211		
					TOTAL MASS (g) :	0.037967		