

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC4212CMS/TRPBF

(Engineering Calculation)

MSCP

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TOTAL MASS (g): 0.027941

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	0.002500	1000000	89474.164025
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.010433	975000	373391.5625
		Iron (Fe)	7439-89-6	0.000237	24000	9197.94433594
		Phosphorus (P)	7723-14-0	0.000003	300	107.369010925
		Zinc (Zn)	7440-66-6	0.000007	700	250.527664185
		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:		0.010700	1000000	382949.4375
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
		Exter. Plating Sn	7440-31-5	0.000710	1000000	25411.5566406
		External Plating Total:		0.000710	1000000	25411.5566406
		Inter. Plating Ni	7440-02-0	0.000000	0	0
		Inter. Plating Ag	7440-22-4	0.000086	1000000	3077.91137695
		Internal Plating Total:		0.000086	1000000	3077.91137695
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000004	750000	28774.8925781
		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)		0.000268	250000	9591.63085938
		Die Attach Total:		0.001072	1000000	38366.5234275
Encapsulation	MULTIAROMATIC RESIN BzSB FREE	Resin (EP)		0.001659	130000	59375.0546875
		Bromine (Br)	40039-93-8	0.000000	0	0
		Silica (SiO2)	60676-86-0	0.010591	830000	379048.375
		Antimony Trioxide (Sb2O3)	1309-64-4	0.000000	0	0
		Metal Hydroxide		0.000447	35000	15997.9814453
		Carbon Black (C)	1333-86-4	0.000064	5000	2290.53881836
		Encapsulation Total:		0.012761	1000000	456711.90625
Band Wire Estimated	AFW/TANAKA/ Kti	Gold (Au)	7440-57-5	0.000112	1000000	4008.44262695

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