

LINEAR TECHNOLOGY MATERIALS DECLARATION

(Engineering Calculation)

MSOP

LT1995CMS#TRPBF

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TOTAL MASS (g): 0.02787

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	0.002387	1000000	85647.578125		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.010433	975000	374344.8125		
		Iron (Fe)	7439-89-6	0.000257	24000	9221.37695312		
		Phosphorus (P)	7723-14-0	0.000003	300	107.642532349		
		Zinc (Zn)	7440-66-6	0.000007	700	251.165908813		
		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		
		<b>Lead Frame Total:</b>				<b>0.010700</b>	<b>1000000</b>	<b>383925.03125</b>
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0
Exter. Plating Sn	7440-31-5			0.000710	1000000	25476.2929688		
<b>External Plating Total:</b>						<b>0.000710</b>	<b>1000000</b>	<b>25476.2929688</b>
Inter. Plating Ni	7440-02-0			0.000000	0	0		
Inter. Plating Ag	7440-22-4			0.000066	1000000	3085.75244141		
<b>Internal Plating Total:</b>						<b>0.000066</b>	<b>1000000</b>	<b>3085.75244141</b>
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000778	750000	27915.2949219		
		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)		0.002259	250000	9293.13709531		
		<b>Die Attach Total:</b>				<b>0.002259</b>	<b>1000000</b>	<b>37206.4335938</b>
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)		0.001659	130000	59526.3164062
				Bromine (Br)	40093-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.010591	830000	380014		
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0		
Metal Hydroxide				0.000447	35000	16038.7363281		
Carbon Black (C)	1333-86-4			0.000064	5000	2296.37402344		
<b>Encapsulation Total:</b>						<b>0.012761</b>	<b>1000000</b>	<b>45785.4375</b>
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000189	1000000	6781.47949219		

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