

LINEAR TECHNOLOGY MATERIALS DECLARATION

(Engineering Calculation)

MSOP-Exposed

LT3799EMSE#TRPBF

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TOTAL MASS (g): 0.036491

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	0.001724	1000000	47244.4921875	
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0	
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013845	975000	379408.375	
		Iron (Fe)	7439-89-6	0.000341	24000	9344.76367188	
		Phosphorus (P)	7723-14-0	0.000004	300	109.615989685	
		Zinc (Zn)	7440-66-6	0.000010	700	274.039978027	
		Nickel (Ni)	7440-02-0	0.000000	0	0	
		Silicon (Si)	7440-21-3	0.000000	0	0	
		Magnesium (Mg)	7439-96-4	0.000000	0	0	
		Tin (Sn)	7440-31-5	0.000000	0	0	
		Lead Frame Total:			0.014290	1000000	389136.78125
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0
Exter. Plating Sn	7440-31-5			0.000710	1000000	19457.5234375	
External Plating Total:					0.000710	1000000	19457.5234375
Inter. Plating Ni	7440-02-0			0.000000	0	0	
Inter. Plating Ag	7440-22-4			0.000086	1000000	2356.74389648	
Internal Plating Total:					0.000086	1000000	2356.74389648
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000623	750000	17072.6933594	
		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)		0.000258	250000	5700.03173828	
		Die Attach Total:			0.000881	1000000	22772.7226562
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)	0.002439	130000	66838.3515625
				Bromine (Br)	40039-93-8	0.000000	0
Silica (SiO2)	60676-86-0			0.015571	830000	426707.65625	
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0	
Metal Hydroxide				0.000657	35000	18004.4257812	
Carbon Black (C)	1333-86-4			0.000094	5000	2575.97583008	
Encapsulation Total:					0.018761	1000000	514126.40625
Bond Wire Estimated	AFW/TANAKA/Kn			Gold (Au)	7440-57-5	0.000179	1000000

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