

LINEAR TECHNOLOGY MATERIALS DECLARATION

LTC4352HMS#PBF

(Engineering Calculation)

MSOP

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TOTAL MASS (g): 0.036737

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	0.001941	1000000	52824.9004688	
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0	
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.013845	975000	376867.78125	
		Iron (Fe)	7439-89-6	0.000341	24000	9282.18945312	
		Phosphorus (P)	7723-14-0	0.000004	300	108.881980896	
		Zinc (Zn)	7440-66-6	0.000010	700	272.204950685	
		Nickel (Ni)	7440-02-0	0.000000	0	0	
		Silicon (Si)	7440-21-3	0.000000	0	0	
		Magnesium (Mg)	7439-98-4	0.000000	0	0	
		Tin (Sn)	7440-31-5	0.000000	0	0	
		Lead Frame Total:			0.014290	1000000	386351.03125
		Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0
Exter. Plating Sn	7440-31-5			0.000710	1000000	19327.2104688	
External Plating Total:					0.000710	1000000	19327.2104688
Inter. Plating Ni	7440-02-0			0.000000	0	0	
Inter. Plating Ag	7440-22-4			0.000086	1000000	2340.9626648	
Internal Plating Total:					0.000086	1000000	2340.9626648
Die Attach	ELECTRICALLY CONDUCTIVE ADHESIVE	Silver (Ag)	7440-22-4	0.000679	750000	18482.7167969	
		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)		0.000226	250000	6151.83201125	
		Die Attach Total:			0.000985	1000000	24634.5488281
		Encapsulation	MULTIAROMATIC RESIN BOND FREE	Resin (EP)	0.002439	130000	66390.78125
Bromine (Br)	40093-93-8			0.000000	0	0	
Silica (SiO2)	60676-86-0			0.015571	830000	423850.3125	
Antimony Trioxide (Sb2O3)	1309-64-4			0.000000	0	0	
Metal Hydroxide				0.000657	35000	17883.8652344	
Carbon Black (C)	1333-86-4			0.000094	5000	2558.7265625	
Encapsulation Total:					0.018761	1000000	510683.71875
Bond Wire Estimated	AFW/TANAKA/Kn	Gold (Au)	7440-57-5	0.000134	1000000	3647.54638672	

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0.036737