

LINEAR TECHNOLOGY MATERIALS DECLARATION

(Engineering Calculation)

DOPAK

LT1175MPQ#TRPBF

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TOTAL MASS (g): 1.394232

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	0.001595	1000000	1143.99890137		
Die Coat	Dow Corning	Silicone	69430-27-9	0.000000	0	0		
Lead Frame	Cu	Copper (Cu)	7440-50-8	0.852419	998500	611389.5625		
		Iron (Fe)	7439-89-6	0.000000	0	0		
		Phosphorus (P)	7723-14-0	0.000000	0	0		
		Zinc (Zn)	7440-66-6	0.000000	0	0		
		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	0.001281	1500	91878527852		
		Lead Frame Total:			0.853700	1000000	612308.3125	
Plating	PMI	Exter. Plating Pb	7439-92-1	0.000000	0	0		
		Exter. Plating Sn	7440-31-5	0.009978	1000000	7156.78369141		
		External Plating Total:			0.009978	1000000	7156.78369141	
		Inter. Plating Ni	7440-02-0	0.004000	740740.75	2868.96264648		
		Inter. Plating Ag	7440-22-4	0.001400	259259.265625	1004.13684082		
		Internal Plating Total:			0.005400	1000000	3873.0995352	
Die Attach	95 Pb / 5 Sn	Silver (Ag)	7440-22-4	0.000000	0	0		
		Tin (Sn)	7440-31-5	0.000052	50000	37.2965164185		
		Lead (Pb)	7439-92-1	0.000989	950000	709.150952148		
		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)		0.000000	0	0		
		Die Attach Total:			0.001041	1000000	746.447521973	
		Encapsulation	MULTI-AROMATIC RESIN (BIS) FREE	Resin (EP)		0.531704	1030000	38518.6914062
				Bromine (Br)	40039-93-8	0.000000	0	0
Silica (SiO2)	60676-86-0			0.466653	895000	334702.5		
Antimony Trisulfide (Sb2S3)	1309-64-4			0.000000	0	0		
Metal Hydrosulfide				0.000000	0	0		
Carbon Black (C)	1333-86-4			0.001043	2000	748.08203125		
Encapsulation Total:					0.521400	1000000	373960.25	
Bond Wire Estimated	AFW/TANAKA/Ko	Gold (Au)	7440-57-5	0.001118	1000000	801.875061035		

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1.394232