

LINEAR TECHNOLOGY MATERIALS DECLARATION

1tc2852mpms#trpbf

(Engineering Calculation)

MSOP

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TOTAL MASS (g) : 0.027718

| 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 | 0.002330 | 1000000 | 84060.8203125 | | |
| Die Coat | Dow Corning | Silicone | 69430-27-9 | 0.000000 | 0 | 0 | | |
| Lead Frame | Cu | Copper (Cu) | 7440-50-8 | 0.010433 | 975000 | 376397.625 | | |
| | | Iron (Fe) | 7439-89-6 | 0.000257 | 24000 | 9271.9453125 | | |
| | | Phosphorus (P) | 7723-14-0 | 0.000003 | 300 | 108.232818604 | | |
| | | Zinc (Zn) | 7440-66-6 | 0.000007 | 700 | 252.543243408 | | |
| | | 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 | 386030.375 | | |
| Plating | PMI | Exter. Plating Pb | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Exter. Plating Sn | 7440-31-5 | 0.000710 | 1000000 | 25616 | | |
| | | External Plating Total: | | | | 0.000710 | 1000000 | 25616 |
| | | Inter. Plating Ni | 7440-02-0 | 0.000000 | 0 | 0 | | |
| | | Inter. Plating Ag | 7440-22-4 | 0.000086 | 1000000 | 3102.67382812 | | |
| Internal Plating Total: | | | | 0.000086 | 1000000 | 3102.67382812 | | |
| Die Attach | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag) | 7440-22-4 | 0.000764 | 750000 | 27563.2910156 | | |
| | | 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) | | 0.000255 | 250000 | 9199.7890625 | | |
| Die Attach Total: | | | | 0.001019 | 1000000 | 36763.078125 | | |
| Encapsulation | MULTI-AROMATIC RESIN Br/Sb FREE | Resin (EP) | | 0.001659 | 130000 | 59852.7460938 | | |
| | | Bromine (Br) | 40039-93-8 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.010591 | 830000 | 382097.9375 | | |
| | | Antimony Trioxide (Sb2O3) | 1309-64-4 | 0.000000 | 0 | 0 | | |
| | | Metal Hydroxide | | 0.000447 | 35000 | 16126.6884766 | | |
| | | Carbon Black (C) | 1333-86-4 | 0.000064 | 5000 | 2308.96679688 | | |
| | | Encapsulation Total: | | | | 0.012761 | 1000000 | 460386.3125 |
| Bond Wire Estimated | AFW/TANAKA/ Kn | Gold (Au) | 7440-57-5 | 0.000112 | 1000000 | 4040.69189453 | | |
| | | | | | TOTAL MASS (g) : | 0.027718 | | |