

LINEAR TECHNOLOGY MATERIALS DECLARATION

ltc3609iwkg#trpbf

(Engineering Calculation)

QFN MultiPad 7 X 8 X 0.9 mm

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TOTAL MASS (g) : 0.158245

| 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 | 0.002566 | 1000000 | 16215.328125 | | |
| Die Coat | Dow Corning | Silicone | 69430-27-9 | 0.000000 | 0 | 0 | | |
| Lead Frame | Cu | Copper (Cu) | 7440-50-8 | 0.076937 | 975000 | 486188.125 | | |
| | | Iron (Fe) | 7439-89-6 | 0.001894 | 24000 | 11968.7578125 | | |
| | | Phosphorus (P) | 7723-14-0 | 0.000024 | 300 | 151.663253784 | | |
| | | Zinc (Zn) | 7440-66-6 | 0.000055 | 700 | 347.56161499 | | |
| | | 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: | | | | 0.078910 | 1000000 | 498656.125 | | |
| Plating | PMI | Exter. Plating Pb | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Exter. Plating Sn | 7440-31-5 | 0.003848 | 1000000 | 24318.7929688 | | |
| | | External Plating Total: | | | | 0.003848 | 1000000 | 24318.7929688 |
| | | Inter. Plating Ni | 7440-02-0 | 0.000000 | 0 | 0 | | |
| | | Inter. Plating Ag | 7440-22-4 | 0.001694 | 1000000 | 10704.8974609 | | |
| Internal Plating Total: | | | | 0.001694 | 1000000 | 10704.8974609 | | |
| Die Attach | 95Sn / 5Sb | Silver (Ag) | 7440-22-4 | 0.000000 | 0 | 0 | | |
| | | Tin (Sn) | 7440-31-5 | 0.001805 | 950000 | 11406.3398438 | | |
| | | 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 | 0.000095 | 50000 | 600.333740234 | | |
| | | Resin (EP) | | 0.000000 | 0 | 0 | | |
| Die Attach Total: | | | | 0.001900 | 1000000 | 12006.6738281 | | |
| Encapsulation | MULTI-AROMATIC RESIN Br/Sb FREE | Resin (EP) | | 0.008945 | 130000 | 56526.15625 | | |
| | | Bromine (Br) | 40039-93-8 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.059177 | 860000 | 373957.34375 | | |
| | | Antimony Trioxide (Sb2O3) | 1309-64-4 | 0.000000 | 0 | 0 | | |
| | | Metal Hydroxide | | 0.000000 | 0 | 0 | | |
| | | Carbon Black (C) | 1333-86-4 | 0.000688 | 10000 | 4347.6796875 | | |
| | | Encapsulation Total: | | | | 0.068810 | 1000000 | 434831.1875 |
| Bond Wire Estimated | AFW/TANAKA/ Kn | Gold (Au) | 7440-57-5 | 0.000517 | 1000000 | 3267.07885742 | | |
| | | | | | TOTAL MASS (g) : | 0.158245 | | |