

PEREGRINE MATERIAL DECLARATION FORM

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|---------------------------------|---|
| Product: | PE4140 |
| Ordering Codes: | 4140-51, 4140-52 |
| Description: | Ultra-High Linearity UltraCMOS Broadband Quad MOSFET Array |
| Package: | 6L DFN |
| Environmental Compliance | EU RoHS Directive 2002/95/EC, REACH - EU ECHA SVHC, Arsenic Free , JIG 101 - EIA/EICTA/JEITA, Halogen Free - IEC61249-2-21, PFOS Free - 2006/122/EC, Antimony Trioxide Free |
| Lead Finish | 100% Matte Tin |
| Availability | Now |

| Component | Material | CAS Number | Weight (mg) | % | PPM |
|----------------------------|--|--------------|------------------|----------------|------------------|
| Die | | | | | |
| | Sapphire (Al ₂ O ₃) | 1344-28-1 | 0.451562 | 2.14% | 21,361 |
| | Silicon (Si) | 7440-21-3 | 0.000150 | 0.00% | 7 |
| | Arsenic (As) | 7440-38-2 | 0.000001 | 0.00% | 0 |
| | Boron (B) | 7440-42-8 | 0.000000 | 0.00% | 0 |
| | Phosphorous (P) | 7723-14-0 | 0.000050 | 0.00% | 2 |
| | Titanium (Ti) | 7440-32-6 | 0.000017 | 0.00% | 1 |
| | Tungsten (W) | 7440-33-7 | 0.000001 | 0.00% | 0 |
| | Copper (Cu) | 7440-50-8 | 0.000002 | 0.00% | 0 |
| | Aluminum (Al) | 7429-90-5 | 0.000752 | 0.00% | 36 |
| | Cobalt (Co) | 7440-48-4 | 0.000000 | 0.00% | 0 |
| Package | | | | | |
| Leadframe | Copper (Cu) | 7440-50-8 | 7.795600 | 36.88% | 368,765 |
| | Iron (Fe) | 7439-89-6 | 0.187900 | 0.89% | 8,888 |
| | Zinc (Zn) | 7440-66-6 | 0.009600 | 0.05% | 454 |
| | Phosphorus (P) | 7723-14-0 | 0.002400 | 0.01% | 114 |
| | Silver (Ag) | 7440-22-4 | 0.206400 | 0.98% | 9,764 |
| Die Attach | Silver (Ag) | 7440-22-4 | 0.199900 | 0.95% | 9,456 |
| | Epoxy Resin | 9003-36-5 | 0.050000 | 0.24% | 2,365 |
| | t-Butyl phenyl glycidyl ether | 3101-60-8 | 0.020800 | 0.10% | 984 |
| | Phenolic hardener | 92-88-6 | 0.004200 | 0.02% | 199 |
| | Butyl cellosolve acetate | 112-07-2 | 0.002800 | 0.01% | 132 |
| Gold Wire | Gold (Au) | 7440-57-5 | 0.088500 | 0.42% | 4,186 |
| 100% Matte Tin Lead Finish | Tin (Sn) | 7440-31-5 | 0.114900 | 0.54% | 5,435 |
| Mold Compound | Silica Fused | 60676-86-0 | 11.007800 | 52.07% | 520,716 |
| | Epoxy Resin | Trade secret | 0.480200 | 2.27% | 22,716 |
| | Phenol Resin | Trade secret | 0.480200 | 2.27% | 22,716 |
| | Carbon Black | 1333-86-4 | 0.036000 | 0.17% | 1,703 |
| Total Weight (mg) | | | 21.139736 | 100.00% | 1,000,000 |