

PEREGRINE MATERIAL DECLARATION FORM

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|--------------------------|---------------------------------------|
| Product: | PE4140 |
| Ordering Codes: | 4140-51; 4140-52 |
| Description: | DC - 6GHz Broadband MOSFET Quad Array |
| Package: | 6L 3X3 DFN |
| RoHS Compliant | Yes |
| Lead Finish | 100% Matt Tin |
| Peak Reflow Temp | 260 degree C |
| Time at Peak Temp | 20 Sec |
| Max No. of Reflow | Three |
| Availability | Now |

| Component | Material | CAS Number | Weight (mg) | % | PPM |
|----------------|---|------------|-------------|--------|---------|
| Die | | | | | |
| | Sapphire: | 1344-28-1 | 0.512465 | 2.64% | 26,365 |
| | Silicon: | 7440-21-3 | 0.000021 | 0.00% | 1 |
| | Silicon Dioxide: | 7631-86-9 | 0.002059 | 0.01% | 106 |
| | Silicon Nitride: | 12033-89-5 | 0.001187 | 0.01% | 61 |
| | Tungsten Silicide: | 12039-88-2 | 0.000013 | 0.00% | 1 |
| | Titanium: | 7440-33-6 | 0.000076 | 0.00% | 4 |
| | Titanium Nitride: | 25583-20-4 | 0.000199 | 0.00% | 10 |
| | Aluminium Alloy (98.5%-Al, 1%-Si, 0.5%-Cu): | 7429-90-5 | 0.001010 | 0.01% | 52 |
| | Arsenic: | 7440-38-2 | 0.000000 | 0.00% | 0 |
| | Boron: | 7440-42-8 | 0.000047 | 0.00% | 2 |
| | Phosphorous: | 7723-14-0 | 0.000043 | 0.00% | 2 |
| Package | | | | | |
| Leadframe | Nickel (Ni): | 7440-02-0 | 1.904365 | 9.80% | 97,976 |
| | Iron (Fe): | 7439-89-6 | 2.528447 | 13.01% | 130,084 |
| | Cobalt (Co): | 7440-48-4 | 0.022944 | 0.12% | 1,180 |
| | Carbon (C): | - | 0.002294 | 0.01% | 118 |
| | Silicon (Is): | 7440-21-3 | 0.013766 | 0.07% | 708 |
| | Manganese (Mn): | 7439-96-5 | 0.036711 | 0.19% | 1,889 |
| | Phosphorus (P): | 7723-14-0 | 0.001147 | 0.01% | 59 |
| | Sulfur (S): | - | 0.001147 | 0.01% | 59 |
| | Chromium (Cr): | 7440-47-3 | 0.004589 | 0.02% | 236 |
| | Aluminium (Al): | 7429-90-5 | 0.004589 | 0.02% | 236 |