

## PEREGRINE MATERIAL DECLARATION FORM

|                        |                                       |
|------------------------|---------------------------------------|
| <b>Product:</b>        | PE4140                                |
| <b>Ordering Codes:</b> | 4140-51; 4140-52                      |
| <b>Description:</b>    | DC - 6GHz Broadband MOSFET Quad Array |
| <b>Package:</b>        | 6L 3X3 DFN                            |
| <b>RoHS Compliant</b>  | Yes                                   |
| <b>Lead Finish</b>     | 100% Matte Tin                        |
| <b>Availability</b>    | Now                                   |

| Component                  | Material                                   | CAS Number  | Weight (mg)      | %              | PPM              |
|----------------------------|--|-------------|------------------|----------------|------------------|
| <b>Die</b>                 |  |             |                  |                |                  |
|                            | Sapphire:                                  | 1344-28-1   | 0.512465         | 2.62%          | 26,211           |
|                            | Silicon                                    | 7440-21-3   | 0.000021         | 0.00%          | 1                |
|                            | Silicon Dioxide                            | 7631-86-9   | 0.002059         | 0.01%          | 105              |
|                            | 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                |
| <b>Package</b>             |  |             |                  |                |                  |
| Leadframe                  | Copper (Cu)                                | 7440-50-8   | 4.495674         | 22.99%         | 229,936          |
|                            | Silver (Ag)                                | 7440-57-5   | 0.019118         | 0.10%          | 978              |
|                            | Iron (Fe)                                  | 7439-89-6   | 0.108915         | 0.56%          | 5,571            |
|                            | Zinc (Zn)                                  | 7440-66-6   | 0.005793         | 0.03%          | 296              |
|                            | Phosphorus (P)                             | 7723-14-0   | 0.003824         | 0.02%          | 196              |
|                            | Lead (Pb)                                  | 7439-92-1   | 0.001390         | 0.01%          | 71               |
| Die Attach                 | Epoxy Resin (5 - 25)                       | Proprietary | 0.264000         | 1.35%          | 13,503           |
|                            | Silver (70 - 85)                           | 7440-22-4   | 0.033000         | 0.17%          | 1,688            |
|                            | Aromatic Amine (1 - 10)                    | Proprietary | 0.033000         | 0.17%          | 1,688            |
| Gold Wire                  | Au   | 7440-57-5   | 0.169983         | 0.87%          | 8,694            |
| 100% Matte Tin Lead Finish | Sn   | 7440-31-5   | 0.300000         | 1.53%          | 15,344           |
| Encapsulation G600         | Silica Fused                               | 7631-86-9   | 11.736040        | 60.02%         | 600,251          |
|                            | Epoxy Resin                                | -           | 0.690355         | 3.53%          | 35,309           |
|                            | Epoxy, Cresol Novolac                      | 1309-64-4   | 0.276142         | 1.41%          | 14,124           |
|                            | Carbon Black                               | 1333-86-4   | 0.207107         | 1.06%          | 10,593           |
|                            | Phenol resin                               | -           | 0.690355         | 3.53%          | 35,309           |
| <b>Total Weight (mg)</b>   |  |             | <b>19.551816</b> | <b>100.00%</b> | <b>1,000,000</b> |