

PEREGRINE MATERIAL DECLARATION FORM

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|---------------------------------|--|
| Product: | PE46140 |
| Ordering Codes: | PE46140A-X, PE46140A-G |
| Description: | Monolithic Phase & Amplitude Controller, 3.4–3.8 GHz |
| Package: | 32L 6x6 QFN |
| Environmental Compliance | EU RoHS2 Directive 2011/65/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 |
| Availability | Now |

| Component | Material | CAS Number | Weight (mg) | % | PPM |
|--------------------------|--------------------------|------------|-------------------|---------|-----------|
| Die | | | | | |
| Die | Aluminum oxide | 1344-28-1 | 10.960000 | 9.42% | 94,203 |
| Package | | | | | |
| Die Attach | Methacrylate ester | - | 0.037000 | 0.03% | 318 |
| | Proprietary acrylates | - | 0.160000 | 0.14% | 1,375 |
| | Proprietary bismaleimide | - | 0.037000 | 0.03% | 318 |
| | Proprietary polymer | - | 0.012000 | 0.01% | 103 |
| Mold Compound | Silver | 7440-22-4 | 0.985000 | 0.85% | 8,466 |
| | Carbon black | 1333-86-4 | 0.200000 | 0.17% | 1,719 |
| | Phenol resin | - | 1.800000 | 1.55% | 15,471 |
| | Epoxy resin | - | 3.600000 | 3.09% | 30,942 |
| Leadframe | Silica fused | 60676-86-0 | 34.100000 | 29.31% | 293,094 |
| | Copper | 7440-50-8 | 58.800000 | 50.54% | 505,393 |
| | Iron | 7439-89-6 | 1.400000 | 1.20% | 12,033 |
| | Phosphorus | 7723-14-0 | 0.100000 | 0.09% | 860 |
| | Zinc | 7440-66-6 | 0.100000 | 0.09% | 860 |
| Leadframe Plating | Gold | 7440-57-5 | 0.002000 | 0.00% | 17 |
| | Nickel | 7440-02-0 | 0.814000 | 0.70% | 6,996 |
| | Palladium | 7440-05-3 | 0.017000 | 0.01% | 146 |
| Wire | Silver | 7440-22-4 | 0.001000 | 0.00% | 9 |
| | Gold | 7440-57-5 | 3.220000 | 2.77% | 27,676 |
| Total Weight (mg) | | | 116.345000 | 100.00% | 1,000,000 |

