

PEREGRINE MATERIAL DECLARATION FORM

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|---------------------------------|--|
| Product: | PE42423 |
| Ordering Codes: | PE42423B-Z |
| Description: | UltraCMOS® SPDT RF Switch 100 MHz - 6 GHz |
| Package: | 16L 3X3 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 |
| Lead Finish | NiPdAu |
| Availability | Now |

| Component | Material | CAS Number | Weight (mg) | % | PPM |
|--------------------------|---|--------------|------------------|----------------|------------------|
| Die | | | | | |
| Die | Aluminum oxide | 1344-28-1 | 1.241628 | 5.36% | 53,646 |
| Package | | | | | |
| Leadframe | Copper | 7440-50-8 | 9.054500 | 39.12% | 391,211 |
| | Chromium | 7440-47-3 | 0.022800 | 0.10% | 985 |
| | Tin | 7440-31-5 | 0.022800 | 0.10% | 985 |
| | Zinc | 7440-66-6 | 0.020100 | 0.09% | 868 |
| Internal Plating | Nickel | 7440-02-0 | 0.028600 | 0.12% | 1,236 |
| | Palladium | 7440-05-3 | 0.002300 | 0.01% | 99 |
| | Gold | 7440-57-5 | 0.000100 | 0.00% | 4 |
| External Plating | Nickel | 7440-02-0 | 0.038000 | 0.16% | 1,642 |
| | Palladium | 7440-05-3 | 0.003100 | 0.01% | 134 |
| | Gold | 7440-57-5 | 0.000100 | 0.00% | 4 |
| Die Attach | Silver | 7440-22-4 | 0.135200 | 0.58% | 5,841 |
| | 2-Butoxyethyl acetate | 112-07-2 | 0.015200 | 0.07% | 657 |
| | 2-Propenoic acid, 3-(trimethoxysilyl)propyl ester | 4369-14-6 | 0.001500 | 0.01% | 65 |
| Wire | Gold | 7440-57-5 | 0.160600 | 0.69% | 6,939 |
| Molding Compound | Silica fused | 60676-86-0 | 11.369300 | 49.12% | 491,224 |
| | Epoxy resin | Trade secret | 0.495900 | 2.14% | 21,426 |
| | Phenol resin | Trade secret | 0.495900 | 2.14% | 21,426 |
| | Carbon black | 1333-86-4 | 0.037200 | 0.16% | 1,607 |
| Total Weight (mg) | | | 23.144828 | 100.00% | 1,000,000 |