

## PEREGRINE MATERIAL DECLARATION FORM

<b>Product:</b>	PE4250
<b>Ordering Codes:</b>	PE4250MLI, PE4250MLI-Z
<b>Description:</b>	Reflective SPDT Ultra CMOS RF Switch
<b>Package:</b>	8L MSOP
<b>RoHS Compliant</b>	Yes
<b>Lead Finish</b>	100% Matte Tin
<b>Availability</b>	TBD

Component	Material	CAS Number	Weight (mg)	%	PPM
<b>Die</b>					
	Sapphire:	1344-28-1	0.558443	2.1731%	21731
	Silicon	7440-21-3	0.000022	0.00%	1
	Silicon Dioxide	7631-86-9	0.002374	0.01%	95
	Silicon Nitride	12033-89-5	0.001376	0.01%	54
	Tungsten Silicide	12039-88-2	0.000011	0.00%	0
	Titanium	7440-33-6	0.000069	0.00%	3
	Titanium Nitride	25583-20-4	0.000184	0.00%	7
	Aluminium Alloy (98.5%-Al, 1%-Si, 0.5%-Cu)	7429-90-5	0.000918	0.00%	36
	Arsenic	7440-38-2	0.000000	0.00%	0
	Boron	7440-42-8	0.000054	0.00%	2
	Phosphorous	7723-14-0	0.000049	0.00%	2
<b>Package</b>					
Leadframe	Copper (Cu)	7440-50-8	9.5030	36.9841%	369840.91
	Silver (Ag)	7440-22-4	0.1857	0.7225%	7225.30
	(Ni)	7440-02-0	0.2964	1.1534%	11533.50
	(Si)	7440-21-3	0.0642	0.2499%	2498.93
	(Mg)	7439-95-4	0.0148	0.0577%	576.68
Die Attach	Silver (70 - 90)	7440-22-4	0.2138	0.8319%	8318.82
	Epoxy Resin (10 - 30)	Proprietary	0.0428	0.1664%	1663.76
	Amine (1 - 10)	Proprietary	0.0114	0.0444%	443.67
	Gamma Butyrolactone (1 - 10)	96480	0.0085	0.0333%	332.75
	Metal Oxide (1 - 10)	Proprietary	0.0085	0.0333%	332.75
Gold Wire	Au	7440-57-5	0.1045	0.4067%	4066.57
100% Matte Tin Lead Finish	Sn	7440-31-5	0.8518	3.3149%	33148.86
Mold Compound	Silica Fused (75 - 95)	60676-86-0	11.9871	46.6521%	466521.03
	Epoxy Resin (2 - 8)	Trade secret	0.8296	3.2285%	32285.19
	Epoxy, Cresol Novolac (1 - 3)	29690-82-2	0.2765	1.0762%	10761.73
	Phenol Resin (2 - 8)	Trade secret	0.6913	2.6904%	26904.33
	Carbon Black (0.1- 0.5)	1333-86-4	0.0415	0.1614%	1614.26
<b>Total Weight (mg)</b>			<b>25.694840</b>	<b>100.00%</b>	<b>1,000,000</b>