

## PEREGRINE MATERIAL DECLARATION FORM

<b>Product:</b>	PE4210
<b>Ordering Codes:</b>	4210-51; 4210-52
<b>Description:</b>	Reflective SPDT RF Switch - 50 Ohm
<b>Package:</b>	8L MSOP
<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	0.730728	2.86%	28,603
	Silicon	7440-21-3	0.000022	0.00%	1
	Silicon Dioxide	7631-86-9	0.002374	0.01%	93
	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	9.822074	38.45%	384,472
	Silver (Ag)	7440-57-5	0.041767	0.16%	1,635
	Iron (Fe)	7439-89-6	0.237957	0.93%	9,314
	Zinc (Zn)	7440-66-6	0.012657	0.05%	495
	Phosphorus (P)	7723-14-0	0.008354	0.03%	327
	Lead (Pb)	7439-92-1	0.003038	0.01%	119
Die Attach	Silver (70 - 85)	7440-22-4	0.22088	0.86%	8,646
	Epoxy Resin (5 - 25)	Proprietary	0.04275	0.17%	1,673
	Aromatic Amine (1 - 10)	Proprietary	0.01568	0.06%	614
Gold Wire	Au	7440-57-5	0.10449	0.41%	4,090
	Ag	7440-22-4	0.00003	0.00%	1
	Cu	7440-50-8	0.00003	0.00%	1
	Fe	7439-89-6	0.00005	0.00%	2
	Mg	7439-95-4	0.00003	0.00%	1
	Ca	7440-70-2	0.00003	0.00%	1
	Be	7440-41-7	0.00013	0.00%	5
	Sn	7440-31-5	0.84854	3.32%	33,215
	100% Matte Tin Lead Finish	Silica Fused (75 - 95)	60676-86-0	11.88521	46.00%
Mold Compound	Epoxy Resin (2 - 8)	Trade secret	0.69130	2.71%	27,060
	Epoxy, Cresol Novolac (1 - 3)	29690-82-2	0.27652	1.08%	10,824
	Phenol Resin (2 - 8)	Trade secret	0.69130	2.71%	27,060
	Carbon Black (0.1- 0.5)	1333-86-4	0.04148	0.17%	1,624
<b>Total Weight (mg)</b>			<b>25.680082</b>	<b>100.00%</b>	<b>1,000,000</b>