

## PEREGRINE MATERIAL DECLARATION FORM

<b>Product:</b>	PE4231
<b>Ordering Codes:</b>	4231-51; 4231-52
<b>Description:</b>	Reflective SPDT Broadband Switch - 75 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	1.409119	5.37%	53,720
	Silicon	7440-21-3	0.000135	0.00%	5
	Silicon Dioxide	7631-86-9	0.004594	0.02%	175
	Silicon Nitride	12033-89-5	0.002687	0.01%	102
	Tungsten Silicide	12039-88-2	0.000173	0.00%	7
	Titanium	7440-33-6	0.000154	0.00%	6
	Titanium Nitride	25583-20-4	0.000422	0.00%	16
	Aluminium Alloy (98.5%-Al, 1%-Si, 0.5%-Cu)	7429-90-5	0.002047	0.01%	78
	Arsenic	7440-38-2	0.000001	0.00%	0
	Boron	7440-42-8	0.000105	0.00%	4
	Phosphorous	7723-14-0	0.000095	0.00%	4
<b>Package</b>					
Leadframe	Copper (Cu)	7440-50-8	9.822074	37.44%	374,450
	Silver (Ag)	7440-57-5	0.041767	0.16%	1,592
	Iron (Fe)	7439-89-6	0.237957	0.91%	9,072
	Zinc (Zn)	7440-66-6	0.012657	0.05%	483
	Phosphorus (P)	7723-14-0	0.008354	0.03%	318
	Lead (Pb)	7439-92-1	0.003038	0.01%	116
Die Attach	Silver (70 - 85)	7440-22-4	0.220880	0.84%	8,420
	Epoxy Resin (5 - 25)	Proprietary	0.04275	0.16%	1,630
	Aromatic Amine (1 - 10)	Proprietary	0.01568	0.06%	598
Gold Wire	Au	7440-57-5	0.10449	0.40%	3,983
	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	3.23%	32,349
100% Matte Tin Lead Finish					
Mold Compound	Silica Fused (75 - 95)	60676-86-0	11.2345	44.80%	448,029
	Epoxy Resin (2 - 8)	Trade secret	0.6913	2.64%	26,355
	Epoxy, Cresol Novolac (1 - 3)	29690-82-2	0.27652	1.05%	10,542
	Phenol Resin (2 - 8)	Trade secret	0.6913	2.64%	26,355
	Carbon Black (0.1- 0.5)	1333-86-4	0.04148	0.17%	1,580
<b>Total Weight (mg)</b>			<b>25.713119</b>	<b>100.00%</b>	<b>1,000,000</b>