

# PEREGRINE MATERIAL DECLARATION FORM

<b>Product:</b>	<b>PE42440</b>
<b>Ordering Codes:</b>	<b>PE42440MLIBA, PE42440MLIBA-Z</b>
<b>Description:</b>	<b>SP4T RF Switch</b>
<b>Package:</b>	<b>16L 3 X3 QFN</b>
<b>RoHS Compliant</b>	<b>Yes</b>
<b>Lead Finish</b>	<b>NickelPalladiumGold</b>
<b>Availability</b>	<b>TBD</b>

Component	Material	CAS Number	Weight (mg)	%	PPM
<b>Die</b>					
	Sapphire	1344-28-1	0.49396	1.54%	15,426
	Silicon	7440-21-3	0.00009	0.00%	3
	Silicon Dioxide	7631-86-9	0.00153	0.00%	42
	Silicon Nitride	12033-89-5	0.00009	0.00%	3
	Tungsten Silicide	12039-88-2	0.0001	0.00%	4
	Titanium	7440-33-6	0.00009	0.00%	3
	Titanium Nitride	25583-20-4	0.00026	0.00%	11
	Aluminium Alloy (98.5%-Al, 1%-Si, 0.5%-Cu)	7429-90-5	0.00117	0.00%	31
	Arsenic	7440-38-2	0.00004	0.00%	1
	Boron	7440-42-8	0.00004	0.00%	1
	Phosphorous	7723-14-0	0.00003	0.00%	1
<b>Package</b>					
Leadframe	Nickel(Ni)	7440-02-0	0.155	0.66%	6740
	Palladium(Pd)	5/3/7440	0.015	0.06%	662
	Gold(Au)	7440-57-5	0.002	0.00%	88
	Copper(Cu)	7440-50-8	11.9	52.52%	524,347
	Lead(Pb)	7439-92-1	0.004	0.02%	176
	Zinc(Zn)	7440-66-6	0.013	0.05%	574
	Phosphorus(P)	7723-14-0	0.01	0.04%	441
	Iron(Fe)	1309-37-1	0.291	1.28%	12,749
Gold Wire	Gold (Au)	7440-57-5	0.108000	0.47%	4758
Die Attach Adhesive	Di-ester resin	Trade Secret	0.017	0.00%	550
	Functionalized Ester	Trade Secret	0.043	0.18%	1868
	Polymeric compound	Trade Secret	0.017	0.08%	750
	Silver	7440-22-4	0.498	2.16%	21,389
Mold Compound	Epoxy Resin-1	Trade Secret	0.335	1.48%	14,792
	Epoxy Resin-2	Trade Secret	0.191	0.74%	8433
	Phenol Resin	Trade Secret	0.335	1.46%	14,682
	Silica	60676-86-4	7.686	32.73%	327,377
	Carbon Black	1333-86-4	0.019	0.08%	623
	Metal Hydroxide	Trade Secret	0.526	2.33%	22,325
	Others	Trade Secret	0.479	2.12%	21,150
<b>Total Weight (mg)</b>			<b>23.150000</b>	<b>100.00%</b>	<b>1,000,000</b>