

## PEREGRINE MATERIAL DECLARATION FORM

<b>Product:</b>	PE4230
<b>Ordering Codes:</b>	4230-51, 4230-52
<b>Description:</b>	SPDT High Power UltraCMOS RF Switch
<b>Package:</b>	8L MSOP
<b>Environmental Compliance</b>	EU RoHS Directive 2002/95/EC, <b>REACH</b> - EU ECHA SVHC, <b>Arsenic Free</b> , <b>JIG 101</b> - EIA/EICTA/JEITA, <b>Halogen Free</b> - IEC61249-2-21, <b>PFOS Free</b> - 2006/122/EC, <b>Antimony Trioxide Free</b>
<b>Lead Finish</b>	100% Matte Tin
<b>Availability</b>	Now

Component	Material	CAS Number	Weight (mg)	%	PPM
<b>Die</b>					
	Sapphire (Al <sub>2</sub> O <sub>3</sub> )	1344-28-1	0.962604	3.68%	36,799
	Silicon (Si)	7440-21-3	0.000320	0.00%	12
	Arsenic (As)	7440-38-2	0.000002	0.00%	0
	Boron (B)	7440-42-8	0.000000	0.00%	0
	Phosphorous (P)	7723-14-0	0.000107	0.00%	4
	Titanium (Ti)	7440-32-6	0.000037	0.00%	1
	Tungsten (W)	7440-33-7	0.000003	0.00%	0
	Copper (Cu)	7440-50-8	0.000005	0.00%	0
	Aluminum (Al)	7429-90-5	0.001603	0.01%	61
	Cobalt (Co)	7440-48-4	0.000000	0.00%	0
<b>Package</b>					
Leadframe	Copper (Cu)	7440-50-8	9.503000	36.33%	363,290
	Nickel (Ni)	7440-02-0	0.296400	1.13%	11,331
	Silicon (Si)	7440-21-3	0.064200	0.25%	2,454
	Magnesium (Mg)	7439-95-4	0.014800	0.06%	566
	Silver (Ag)	7440-22-4	0.247500	0.95%	9,462
Die Attach	Silver (Ag)	7440-22-4	0.213800	0.82%	8,173
	Epichlorohydrin-formaldehyde-phenol copolymer	9003-36-5	0.014300	0.05%	547
	Epoxy Resin	68475-94-5	0.014300	0.05%	547
	Lactone	96-48-0	0.014300	0.05%	547
	Polyoxypropylenediamine	9046-10-0	0.014300	0.05%	547
	2,6-Diglycidyl phenyl allyl ether oligomer	Proprietary	0.014300	0.05%	547
Gold Wire	Gold (Au)	7440-57-5	0.104500	0.40%	3,995
100% Matte Tin Lead Finish	Tin (Sn)	7440-31-5	0.851800	3.26%	32,563
Mold Compound	Silica Fused	60676-86-0	11.987100	45.83%	458,254
	Epoxy Resin	Trade secret	0.829600	3.17%	31,715
	Epoxy, Cresol Novolac	29690-82-2	0.276500	1.06%	10,570
	Phenol Resin	Trade secret	0.691300	2.64%	26,428
	Carbon Black	1333-86-4	0.041500	0.16%	1,587
<b>Total Weight (mg)</b>			<b>26.158180</b>	<b>100.00%</b>	<b>1,000,000</b>