

## PEREGRINE MATERIAL DECLARATION FORM

<b>Product:</b>	PE42582
<b>Ordering Codes:</b>	PE42582A-X
<b>Description:</b>	UltraCMOS® SP8T RF Switch, 9 kHz–8 GHz
<b>Package:</b>	24L 4x4 QFN
<b>Environmental Compliance</b>	EU RoHS2 Directive 2011/65/EC, REACH - EU ECHA SVHC, Arsenic Free, JIG 101 - EIA/EICTA/JEITA, Halogen Free - IEC61249-2-21, PFOS Free - 2006/122/EC, Antimony Trioxide Free
<b>Lead Finish</b>	NiPdAu
<b>Availability</b>	Now

Component	Material	CAS Number	Weight (mg)	%	PPM
<b>Die</b>					
Die	Silicon	7440-21-3	3.477008	7.1094%	71,094
	Phosphorus*	7723-14-0	0.000017	0.0000%	0
	Boron*	7440-42-8	0.000017	0.0000%	0
	Arsenic*	7440-38-2	0.000017	0.0000%	0
	Germanium*	7440-56-4	0.000017	0.0000%	0
	Indium*	7440-74-6	0.000017	0.0000%	0
	Cobalt*	7440-48-4	0.000017	0.0000%	0
	Tungsten	7440-33-7	0.000654	0.0013%	13
	Copper	7440-50-8	0.019842	0.0406%	406
	Tantalum	7440-25-7	0.000941	0.0019%	19
Aluminum	7429-90-5	0.000364	0.0007%	7	
<b>Package</b>					
Leadframe	Copper	7440-50-8	23.541000	48.1339%	481,339
	Iron	7439-89-6	0.568000	1.1614%	11,614
	Zinc	7440-66-6	0.030000	0.0613%	613
	Phosphorus	7723-14-0	0.020000	0.0409%	409
	Nickel	7440-02-0	0.428700	0.8766%	8,766
	Palladium	7440-05-3	0.011700	0.0239%	239
	Gold	7440-57-5	0.003800	0.0078%	78
	Silver	7440-22-4	0.002600	0.0053%	53
Wire	Gold	7440-57-5	0.800000	1.6357%	16,357
Die Attach	Proprietary Acrylates	Trade secret	0.068700	0.1405%	1,405
	Silver	7440-22-4	0.422800	0.8645%	8,645
	Proprietary Bismaleimide	Trade secret	0.015900	0.0325%	325
	Methacrylate Ester	Trade secret	0.015900	0.0325%	325
Molding Compound	Proprietary Polymer	Trade secret	0.005300	0.0108%	108
	Epoxy resin	Trade secret	1.753000	3.5843%	35,843
	Silica Fused	60676-86-0	16.748000	34.2444%	342,444
	Phenol resin	Trade secret	0.876000	1.7911%	17,911
	Carbon black	1333-86-4	0.097000	0.1983%	1,983
<b>Total Weight (mg)</b>			<b>48.907315</b>	<b>100.00%</b>	<b>1,000,000</b>

Note: \* concentration in PPB range.