

## PEREGRINE MATERIAL DECLARATION FORM

<b>Product:</b>	PE46120
<b>Ordering Codes:</b>	PE46120B-X
<b>Description:</b>	Monolithic Phase and Amplitude Controller 1.8–2.2 GHz
<b>Package:</b>	32L 6X6 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>					
	Aluminum oxide	1344-28-1	9.836866	8.51%	85,112
<b>Package</b>					
Leadframe	Copper	7440-50-8	58.800000	50.88%	508,757
	Iron	7439-89-6	1.400000	1.21%	12,113
	Zinc	7440-66-6	0.100000	0.09%	865
	Phosphorus	7723-14-0	0.100000	0.09%	865
Die Attach	Proprietary Acrylates	-	0.157000	0.14%	1,358
	Silver	7440-22-4	0.964000	0.83%	8,341
	Proprietary Bismaleimide	-	0.036000	0.03%	311
	Methacrylate Ester	-	0.036000	0.03%	311
	Proprietary Polymer	-	0.012000	0.01%	104
Gold Wire	Gold	7440-57-5	3.186000	2.76%	27,566
Frame Plating	Nickel	7440-02-0	0.814000	0.70%	7,043
	Palladium	7440-05-3	0.017000	0.01%	147
	Gold	7440-57-5	0.002000	0.00%	17
	Silver	7440-22-4	0.001000	0.00%	9
External Plating	Nickel	7440-02-0	0.189000	0.16%	1,635
	Palladium	7440-05-3	0.011000	0.01%	95
	Gold	7440-57-5	0.008000	0.01%	69
	Silver	7440-22-4	0.006000	0.01%	52
Mold Compound	Silica Fused	60676-86-0	34.300000	29.68%	296,775
	Epoxy Resin	-	3.600000	3.11%	31,148
	Phenol Resin	-	1.800000	1.56%	15,574
	Carbon Black	1333-86-4	0.200000	0.17%	1,730
<b>Total Weight (mg)</b>			<b>115.575866</b>	100.00%	1,000,000