

## PEREGRINE MATERIAL DECLARATION FORM

<b>Product:</b>	PE45361
<b>Ordering Codes:</b>	PE45361A-X
<b>Description:</b>	UltraCMOS® Power Limiter, 10 MHz–6 GHz
<b>Package:</b>	12 L 3X3 QFN
<b>Environmental Compliance</b>	EU RoHS 2 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	Aluminum oxide	1344-28-1	1.646945	9.05%	90,527
	Aluminum	7429-90-5	0.005010	0.03%	275
	Silicon	7440-21-3	0.000334	0.00%	18
	Arsenic*	7440-38-2	0.000002	0.00%	0
	Boron*	7440-42-8	0.000000	0.00%	0
	Phosphorous*	7723-14-0	0.000007	0.00%	0
	Titanium	7440-32-6	0.000835	0.00%	46
	Tungsten	7440-33-7	0.016699	0.09%	918
	Cobalt	7440-48-4	0.000033	0.00%	2
	Copper	7440-50-8	0.000013	0.00%	1
<b>Package</b>					
Leadframe	Copper	7440-50-8	9.527000	52.37%	523,666
	Nickel	7440-02-0	0.538000	2.96%	29,572
	Silicon	7440-50-8	0.064000	0.35%	3,518
	Magnesium	7439-95-4	0.015000	0.08%	824
	Palladium	7440-05-3	0.006000	0.03%	330
	Gold	7440-57-5	0.004000	0.02%	220
Die Attach	Proprietary Acrylates	Trade secret	0.023000	0.13%	1,264
	Silver	7440-22-4	0.141000	0.78%	7,750
	Proprietary Bismaleimide	Trade secret	0.005000	0.03%	275
	Methacrylate Ester	Trade secret	0.005000	0.03%	275
	Proprietary polymer	Trade secret	0.002000	0.01%	110
Wire	Gold	7440-57-5	0.251000	1.38%	13,797
Mold Compound	Multi-Aromatic Resin	Trade secret	0.832000	4.57%	45,732
	Silica fused	60676-86-0	5.110000	28.09%	280,879
<b>Total Weight (mg)</b>			<b>18.192878</b>	100.00%	1,000,000

Note: \* signifies concentrations are in the PPB concentration (Parts Per Billion) range, which is less than PPM (Parts Per Million)