

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE45140
Ordering Codes:	PE45140A-X
Description:	UltraCMOS® Power Limiter 20 MHz–2 GHz
Package:	12L 3x3 QFN
Environmental Compliance	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
Lead Finish	NiPdAu
Availability	Now

Component	Material	CAS Number	Weight (mg)	%	PPM
Die	Aluminum oxide	1344-28-1	0.927004	5.31%	53,084.17
Die	Aluminum	7429-90-5	0.002820	0.02%	161.47
Die	Silicon	7440-21-3	0.000188	0.00%	10.76
Die	Arsenic	7440-38-2	0.000001	0.00%	0.05
Die	Boron	7440-42-8	0.000001	0.00%	0.05
Die	Phosphorus	7723-14-0	0.000004	0.00%	0.22
Die	Titanium	7440-32-6	0.000470	0.00%	26.91
Die	Tungsten	7440-33-7	0.009399	0.05%	538.23
Die	Cobalt	7440-48-4	0.000019	0.00%	1.08
Die	Copper	7440-50-8	0.000008	0.00%	0.43
Leadframe	Copper	7440-50-8	9.527000	54.56%	545,556.17
Leadframe	Silicon	7440-21-3	0.064000	0.37%	3,664.91
Leadframe	Magnesium	7439-95-4	0.015000	0.09%	858.96
Plating	Nickel	7440-02-0	0.538000	3.08%	30,808.15
Plating	Palladium	7440-05-3	0.006000	0.03%	343.59
Plating	Gold	7440-57-5	0.004000	0.02%	229.06
Die Attach	Proprietary Acrylates	Trade secret	0.023000	0.13%	1,317.08
Die Attach	Silver	7440-22-4	0.141000	0.81%	8,074.25
Die Attach	Proprietary Bismaleimide	Trade secret	0.005000	0.03%	286.32
Die Attach	Methacrylate Ester	Trade secret	0.005000	0.03%	286.32
Die Attach	Proprietary polymer	Trade secret	0.002000	0.01%	114.53
Wire	Gold	7440-57-5	0.251000	1.44%	14,373.32
Mold Compound	Multi-Aromatic Resin	Trade secret	0.832000	4.76%	47,643.83
Mold Compound	Silica fused	60676-86-0	5.110000	29.26%	292,620.14
Total Weight (mg)			17.462913	100.00%	1,000,000