

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE3336
Ordering Codes:	3336-52, 3336-53
Description:	3 GHz UltraCMOS Integer-N PLL for Low Phase Noise Applications
Package:	48L 7X7 QFN
Environmental Compliance	EU RoHS Directive 2002/95/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	100% Matte Tin
Availability	Now

Component	Material	CAS Number	Weight (mg)	%	PPM
Die					
	Sapphire (Al ₂ O ₃)	1344-28-1	5.420713	3.97%	39,729
	Silicon (Si)	7440-21-3	0.001799	0.00%	13
	Arsenic (As)	7440-38-2	0.000009	0.00%	0
	Boron (B)	7440-42-8	0.000002	0.00%	0
	Phosphorous (P)	7723-14-0	0.000605	0.00%	4
	Titanium (Ti)	7440-32-6	0.000207	0.00%	2
	Tungsten (W)	7440-33-7	0.000016	0.00%	0
	Copper (Cu)	7440-50-8	0.000028	0.00%	0
	Aluminum (Al)	7429-90-5	0.009024	0.01%	66
	Cobalt (Co)	7440-48-4	0.000000	0.00%	0
Package					
Leadframe	Copper (Cu)	7440-50-8	60.630600	44.44%	444,367
	Iron (Fe)	7439-89-6	1.461400	1.07%	10,711
	Zinc (Zn)	7440-66-6	0.074600	0.05%	547
	Phosphorus (P)	7723-14-0	0.018700	0.01%	137
	Silver (Ag)	7440-22-4	0.319400	0.23%	2,341
Die Attach	Silver (Ag)	7440-22-4	2.729200	2.00%	20,003
	Methacrylate	Proprietary	0.727800	0.53%	5,334
	1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione	Proprietary	0.181900	0.13%	1,333
Gold Wire	Gold (Au)	7440-57-5	1.403000	1.03%	10,283
100% Matte Tin Lead Finish	Tin (Sn)	7440-31-5	2.847200	2.09%	20,867
Mold Compound	Silica Fused	60676-86-0	55.585200	40.74%	407,389
	Epoxy Resin	Trade secret	2.424700	1.78%	17,771
	Phenol Resin	Trade secret	2.424700	1.78%	17,771
	Carbon Black	1333-86-4	0.181800	0.13%	1,332
Total Weight (mg)			136.442604	100.00%	1,000,000