

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE3341
Ordering Codes:	3341-53; 3341-54
Description:	Integer-N Phase Locked-Loop (PLL) Frequency Synthesizer
Package:	20L 4X4 QFN
RoHS Compliant	Yes
Lead Finish	100% Matte Tin
Availability	Now

Component	Material	CAS Number	Weight (mg)	%	PPM
Die					
	Sapphire:	1344-28-1	2.579040	5.75%	57,539
	Silicon	7440-21-3	0.000285	0.00%	6
	Silicon Dioxide	7631-86-9	0.014534	0.03%	324
	Silicon Nitride	12033-89-5	0.005920	0.01%	132
	Tungsten Silicide	12039-88-2	0.000305	0.00%	7
	Titanium	7440-33-6	0.000637	0.00%	14
	Titanium Nitride	25583-20-4	0.001372	0.00%	31
	Aluminium Alloy (98.5%-Al, 1%-Si, 0.5%-Cu)	7429-90-5	0.008878	0.02%	198
	Arsenic	7440-38-2	0.000001	0.00%	0
	Boron	7440-42-8	0.000235	0.00%	5
	Phosphorous	7723-14-0	0.000214	0.00%	5
Package					
Leadframe 421950	Copper (Cu)	7440-50-8	13.837525	30.87%	308,719
	Iron (Fe)	7439-89-6	0.333520	0.74%	7,441
	Zinc (Zn)	7440-66-6	0.017031	0.04%	380
	Phosphorus (P)	7723-14-0	0.004258	0.01%	95
	Ag (weight estimate)	7440-22-4	0.168000	0.37%	3,748
Die Attach	Silver (65 - 85)	7440-22-4	0.129812	0.29%	2,896
	Epoxy Resin (15 - 25)	9003-36-5	0.034617	0.08%	772
	t-Butyl phenyl glycidyl ether (5-10)	3101-60-8	0.012981	0.03%	290
	Phenolic hardener (1-2)	92-88-6	0.002596	0.01%	58
	Butyl cellosolve acetate (0.5-1.5)	112-07-2	0.001731	0.00%	39
Gold Wire	Au	7440-57-5	0.260500	0.58%	5,812
	Ag	7440-22-4	0.000045	0.00%	1
	Cu	7440-50-8	0.000045	0.00%	1
	Fe	7439-89-6	0.000090	0.00%	2
	Mg	7439-95-4	0.000045	0.00%	1
	Ca	7440-70-2	0.000045	0.00%	1
	Be	7440-41-7	0.000224	0.00%	5
100% Matte Tin Lead Finish	Sn	7440-31-5	0.788200	1.76%	17,585
Mold Compound	Silica Fused (75-95)	60676-86-0	23.569551	52.60%	525,843
	Epoxy Resin (1-5)	Trade secret	1.941022	4.33%	43,305
	Phenol Resin (1-5)	Trade secret	0.970511	2.17%	21,652
	Carbon Black (0.1-0.5)	1333-86-4	0.138644	0.31%	3,093
Total Weight (mg)			44.822414	100.00%	1,000,000