

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% Matt Tin
Peak Reflow Temp	260 degree C
Time at Peak Temp	20 Sec
Max No. of Reflow	Three
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	Cu:	7440-50-8	13.837525	30.87%	308,719
	Fe:	7439-89-6	0.333520	0.74%	7,441
	Zn:	7440-66-6	0.017031	0.04%	380
	P:	7723-14-0	0.004258	0.01%	95
	Ag (weight estimate):	7440-22-4	0.168000	0.37%	3,748
	Die attach material	Silver (65 - 85):	7440-22-4	0.129812	0.29%
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
Gold Wire	Butyl cellosolve acetate (0.5 - 1.5):	112-07-2	0.001731	0.00%	39
	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
100% Matte Tin Lead Finish	Ca:	7440-70-2	0.000045	0.00%	1
	Be:	7440-41-7	0.000224	0.00%	5
Mold Compound	Sn:	7440-31-5	0.788200	1.76%	17,585
	Silica Fused (75 - 95):	60676-86-0	23.569551	52.58%	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
Total Weight (mg)	Carbon Black (0.1- 0.5):	1333-86-4	0.138644	0.31%	3,093
			44.822414	100.00%	1,000,000