

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE64906
Ordering Codes:	PE649064B-Z
Description:	UltraCMOS® Digitally Tunable Capacitor (DTC) 100-3000 MHz
Package:	6L 1.5 X 1.5 DFN
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					
Die	Aluminum oxide	1344-28-1	0.782399	8.68%	86,815
	Aluminum	7429-90-5	0.002380	0.03%	264
	Silicon	7440-21-3	0.000159	0.00%	18
	Arsenic	7440-38-2	0.000001	0.00%	0
	Boron	7440-42-8	0.000001	0.00%	0
	Phosphorous	7723-14-0	0.000002	0.00%	0
	Titanium	7440-32-6	0.000397	0.00%	44
	Tungsten	7440-33-7	0.007933	0.09%	880
	Cobalt	7440-48-4	0.000016	0.00%	2
	Copper	7440-50-8	0.000006	0.00%	1
Package					
Leadframe	Copper	7440-50-8	4.745000	52.65%	526,503
	Nickel	7440-02-0	0.148000	1.64%	16,422
	Silicon	7440-21-3	0.032000	0.36%	3,551
	Magnesium	7439-95-4	0.007000	0.08%	777
Plating	Nickel	7440-02-0	0.124000	1.38%	13,759
	Palladium	7440-05-3	0.004000	0.04%	444
	Gold	7440-57-5	0.003000	0.03%	333
Die Attach	Acrylates	Proprietary	0.019000	0.21%	2,108
	Silver	7440-22-4	0.116000	1.29%	12,871
	Proprietary Bismaleimide	Proprietary	0.004000	0.04%	444
	Methacrylate ester	Trade secret	0.004000	0.04%	444
	Proprietary polymer	Trade secret	0.001000	0.01%	111
Wire	Copper	7440-50-8	0.016000	0.18%	1,775
Mold Compound	Silica fused	60676-86-0	2.577000	28.59%	285,943
	Multi-aromatic resin	Trade secret	0.419000	4.65%	46,492
Total Weight (mg)			9.012293	100.00%	1,000,000

98.626700
0.300000
0.020000
0.000100
0.000100

0.000200
0.050000
1.000000
0.002000
0.000800
96.208400
3.000800
0.648800
0.141900
94.656000
3.053400
2.290000
0.385200
2.351900
0.081100
0.081100
0.020200
100.000000
86.014600
13.985300

0.99	98.62675	
0.00	0.3	
0.00	0.02	
0.00	0.0001	
0.00	0.0001	
0.00	0.000252	
0.00	0.05	
0.01	1.000001	
0.00	0.002	
0.00	0.0008	
0.96	96.20843	
0.03	3.000811	9.01
0.01	0.648824	
0.00	0.14193	
0.95	94.65649	
0.03	3.053435	
0.02	2.290076	
0.00	0.385239	
0.02	2.351987	
0.00	0.081103	
0.00	0.081103	
0.00	0.020276	
1.00	100	
0.86	86.01469	
0.14	13.98531	

0.7824
0.0024
0.159
0.001
0.001

0.002
0.0004
0.0079
0.016
0.006
4.745
0.148
0.032
0.007
0.124
0.004
0.003
0.019
0.116
0.004
0.004
0.001
0.016
2.577
0.419