

## PEREGRINE MATERIAL DECLARATION FORM

<b>Product:</b>	PE613010
<b>Ordering Codes:</b>	PE613010B-Z
<b>Description:</b>	UltraCMOS® SPST Tuning Control Switch, 100–3000 MHz
<b>Package:</b>	10L 2X2 QFN
<b>Environmental Compliance</b>	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
<b>Lead Finish</b>	NiPdAu
<b>Availability</b>	Now

Component	Material	CAS Number	Weight (mg)	%	PPM
<b>Die</b>					
Die	Aluminum oxide	1344-28-1	0.783385	10.54%	105,420
	Aluminum	7429-90-5	0.002383	0.03%	321
	Silicon	7440-21-3	0.000159	0.00%	21
	Arsenic*	7440-38-2	0.000001	0.00%	0
	Boron*	7440-42-8	0.000000	0.00%	0
	Phosphorous*	7723-14-0	0.000003	0.00%	0
	Titanium	7440-32-6	0.000397	0.01%	53
	Tungsten	7440-33-7	0.007943	0.11%	1,069
	Cobalt	7440-48-4	0.000016	0.00%	2
	Copper	7440-50-8	0.000006	0.00%	1
<b>Package</b>					
Leadframe	Copper (Cu)	7440-50-8	2.524200	33.97%	339,681
	Iron (Fe)	7439-89-6	0.608000	8.18%	81,818
	Zinc (Zn)	7440-66-6	0.003100	0.04%	417
	Phosphorus (P)	7723-14-0	0.000800	0.01%	108
Internal Plating	Nickel (Ni)	7440-02-0	0.012000	0.16%	1,615
	Palladium (Pd)	7440-05-3	0.001000	0.01%	135
	Gold (Au)	7440-57-5	0.000000	0.00%	0
External Plating	Nickel (Ni)	7440-02-0	0.015900	0.21%	2,140
	Palladium (Pd)	7440-05-3	0.001300	0.02%	175
	Gold (Au)	7440-57-5	0.000100	0.00%	13
Die Attach	Silver (Ag)	7440-22-4	0.052100	0.70%	7,011
	exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	7534-94-3	0.013900	0.19%	1,871
	1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione	3006-93-7	0.003500	0.05%	471
Gold Wire	Gold (Au)	7440-57-5	0.107800	1.45%	14,507
Mold Compound	Silica Fused	60676-86-0	3.019800	40.64%	406,374
	Epoxy Resin	Trade secret	0.131700	1.77%	17,723
	Phenol Resin	Trade secret	0.131700	1.77%	17,723
	Carbon Black	1333-86-4	0.009900	0.13%	1,332
<b>Total Weight (mg)</b>			<b>7.431093</b>	100.00%	1,000,000

Note \*: concentration is in PPB rand and do not appear in PPM range reported.