

## PEREGRINE MATERIAL DECLARATION FORM

<b>Product:</b>	PE42451
<b>Ordering Codes:</b>	PE42451MLIAA, PE42451MLIAA-Z, EK42451-01
<b>Description:</b>	SP5T Absorptive UltraCMOS High-Isolation RF Switch 450-4000MHz Vss Option
<b>Package:</b>	24L 4X4 QFN
<b>Environmental Compliance</b>	EU RoHS Directive 2002/95/EC, <b>REACH</b> - EU ECHA SVHC, <b>Arsenic Free</b> , <b>JIG 101</b> - EIA/EICTA/JEITA, <b>Halogen Free</b> - IEC61249-2-21, <b>PFOS Free</b> - 2006/122/EC, <b>Antimony Trioxide Free</b>
<b>Lead Finish</b>	NiPdAu
<b>Availability</b>	Now

Component	Material	CAS Number	Weight (mg)	%	PPM
<b>Die</b>					
	Sapphire (Al <sub>2</sub> O <sub>3</sub> )	1344-28-1	2.027051	4.67%	46,651
	Silicon (Si)	7440-21-3	0.000673	0.00%	15
	Arsenic (As)	7440-38-2	0.000003	0.00%	0
	Boron (B)	7440-42-8	0.000001	0.00%	0
	Phosphorous (P)	7723-14-0	0.000226	0.00%	5
	Titanium (Ti)	7440-32-6	0.000078	0.00%	2
	Tungsten (W)	7440-33-7	0.000006	0.00%	0
	Copper (Cu)	7440-50-8	0.000010	0.00%	0
	Aluminum (Al)	7429-90-5	0.003375	0.01%	78
	Cobalt (Co)	7440-48-4	0.000000	0.00%	0
<b>Package</b>					
Leadframe	Copper (Cu)	7440-50-8	18.410900	42.37%	423,711
	Iron (Fe)	7439-89-6	0.443700	1.02%	10,211
	Zinc (Zn)	7440-66-6	0.022700	0.05%	522
	Phosphorus (P)	7723-14-0	0.005700	0.01%	131
Die Attach	Silver (Ag)	7440-22-4	0.171200	0.39%	3,940
	Epoxy Resin	9003-36-5	0.021400	0.05%	493
	Diluent	26447-14-3	0.012800	0.03%	295
	Dicyandiamide	461-58-5	0.002100	0.00%	48
	Hardener	620-92-8	0.006400	0.01%	147
Gold Wire	Gold (Au)	7440-57-5	0.239400	0.55%	5,510
Internal Plating	Nickel (Ni)	7440-02-0	0.069000	0.16%	1,588
	Palladium (Pd)	7440-05-3	0.005600	0.01%	129
	Gold (Au)	7440-57-5	0.000200	0.00%	5
External Plating	Nickel (Ni)	7440-02-0	0.056700	0.13%	1,305
	Palladium (Pd)	7440-05-3	0.004600	0.01%	106
	Gold (Au)	7440-57-5	0.000180	0.00%	4
Mold Compound	Silica Fused	60676-86-0	20.125900	46.32%	463,181
	Epoxy Resin	Trade secret	0.877900	2.02%	20,204
	Phenol Resin	Trade secret	0.877900	2.02%	20,204
	Carbon Black	1333-86-4	0.065800	0.15%	1,514
<b>Total Weight (mg)</b>			<b>43.451503</b>	100.00%	1,000,000