

## pSEMI MATERIAL DECLARATION FORM

<b>Product:</b>	<b>PE42445</b>
<b>Ordering Codes:</b>	<b>PE42445A-Z</b>
<b>Description:</b>	<b>SP4T RF Switch</b>
<b>Package:</b>	<b>20FCLGA 3x3</b>
<b>Environmental Compliance</b>	EU RoHS Directive 2011/65/EC and amendment 2015/863, <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>	<b>NiPdAu</b>
<b>Availability</b>	<b>Now</b>

Component	Material	CAS Number	Weight (mg)	%	PPM
Die	Silicon	7440-21-3	1.961865	11.95%	119,458.25
Die	Phosphorus	7723-14-0	0.000010	0.00%	0.60
Die	Boron	7440-42-8	0.000010	0.00%	0.60
Die	Arsenic	7440-38-2	0.000010	0.00%	0.60
Die	Germanium	7440-56-4	0.000010	0.00%	0.60
Die	Indium	7440-74-6	0.000010	0.00%	0.60
Die	Cobalt	7440-48-4	0.000010	0.00%	0.60
Die	Tungsten	7440-33-7	0.000369	0.00%	22.48
Die	Copper	7440-50-8	0.011196	0.07%	681.72
Die	Tantalum	7440-25-7	0.000531	0.00%	32.34
Die	Aluminum	7429-90-5	0.000205	0.00%	12.50
Polyimide	Proprietary polymer	Trade secret	0.012000	0.07%	730.68
Titanium UBM	Titanium	7440-32-6	0.000014	0.00%	0.87
Copper UBM	Copper	7440-50-8	0.000113	0.00%	6.88
Copper Plate	Copper	7440-50-8	0.012000	0.07%	730.68
Nickel Plate	Nickel	7440-02-0	0.000702	0.00%	42.74
Solder Cap (SnAg)	Tin	7440-31-5	0.003480	0.02%	211.90
Solder Cap (SnAg)	Silver	7440-22-4	0.003480	0.02%	211.90
Substrate	Copper	7440-50-8	1.258000	7.66%	76,599.80
Substrate	Nickel	7440-02-0	0.077000	0.47%	4,688.54
Substrate	Palladium	7440-05-3	0.005000	0.03%	304.45
Substrate	Gold	7440-57-5	0.008000	0.05%	487.12
Substrate	Continuous Filament Fiber Glass	65997-17-3	0.864000	5.26%	52,609.08
Substrate	Thermosetting Resin	Trade secret	0.936000	5.70%	56,993.17
Mold CMPD	Solid Epoxy Resin	Trade secret	0.676140	4.12%	41,170.28
Mold CMPD	Hardener	Trade secret	0.450760	2.74%	27,446.85
Mold CMPD	Carbon Black	1333-86-4	0.112690	0.69%	6,861.71
Mold CMPD	Metal Hydroxide	Trade secret	0.225380	1.37%	13,723.43
Mold CMPD	Amorphous silica	60676-86-0	9.804034	59.70%	596,969.02
<b>Total Weight (mg)</b>			<b>16.423019</b>	100.00%	1,000,000