

## pSEMI MATERIAL DECLARATION FORM

<b>Product:</b>	<b>PE4257</b>
<b>Ordering Codes:</b>	<b>4257-52</b>
<b>Description:</b>	<b>50 Ω SPDT Absorptive UltraCMOS™ 3.0 GHz RF Switch</b>
<b>Package:</b>	<b>20L 4X4 QFN</b>
<b>Environmental Compliance</b>	<b>EU RoHS Directive 2002/95/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>
<b>Lead Finish</b>	<b>100% Matte Tin</b>
<b>Availability</b>	<b>Now</b>

Component	Material	CAS Number	Weight (mg)	%	PPM
Die	Sapphire (Al <sub>2</sub> O <sub>3</sub> )	1344-28-1	0.909017	2.24%	22,409.90
Die	Silicon (Si)	7440-21-3	0.000302	0.00%	7.44
Die	Arsenic (As)	7440-38-2	0.000001	0.00%	0.04
Die	Boron (B)	7440-42-8	0.000000	0.00%	0.01
Die	Phosphorous (P)	7723-14-0	0.000101	0.00%	2.50
Die	Titanium (Ti)	7440-32-6	0.000035	0.00%	0.86
Die	Tungsten (W)	7440-33-7	0.000003	0.00%	0.07
Die	Copper (Cu)	7440-50-8	0.000005	0.00%	0.11
Die	Aluminum (Al)	7429-90-5	0.001513	0.00%	37.31
Die	Cobalt (Co)	7440-48-4	0.000000	0.00%	0.00
LeadFrame	Copper (Cu)	7440-50-8	15.640800	38.56%	385,591.10
LeadFrame	Iron (Fe)	7439-89-6	0.377000	0.93%	9,294.14
LeadFrame	Zinc (Zn)	7440-66-6	0.019300	0.05%	475.80
LeadFrame	Phosphorus (P)	7723-14-0	0.004800	0.01%	118.33
LeadFrame	Silver (Ag)	7440-22-4	0.396000	0.98%	9,762.55
Die Attach	Silver (Ag)	7440-22-4	0.079500	0.20%	1,959.91
Die Attach	Epoxy Resin	9003-36-5	0.019900	0.05%	490.59
Die Attach	t-Butyl phenyl glycidyl ether	3101-60-8	0.008300	0.02%	204.62
Die Attach	Phenolic harder	92-88-6	0.001700	0.00%	41.91
Die Attach	Butyl cellosolve acetate	112-07-2	0.001100	0.00%	27.12
Gold Wire	Gold (Au)	7440-57-5	0.243900	0.60%	6,012.84
100% Matte Tin Lead Finish	Tin (Sn)	7440-31-5	0.278300	0.69%	6,860.90
Mold Compound	Silica Fused	60676-86-0	20.837500	51.37%	513,704.83
Mold Compound	Epoxy Resin	Trade secret	0.908900	2.24%	22,407.02
Mold Compound	Phenol Resin	Trade secret	0.068200	0.17%	1,681.33
Mold Compound	Carbon Black	1333-86-4	0.767000	1.89%	18,908.78
<b>Total Weight (mg)</b>			<b>40.563177</b>	<b>100.00%</b>	<b>1,000,000</b>

