

## PEREGRINE MATERIAL DECLARATION FORM

<b>Product:</b>	PE43501
<b>Ordering Codes:</b>	PE43501MLI, PE43501MLI-Z
<b>Description:</b>	RF Digital Step Attenuator - 50 Ohm
<b>Package:</b>	32L 5X5 QFN
<b>RoHS Compliant</b>	Yes
<b>Lead Finish</b>	100% Matte Tin
<b>Availability</b>	Now

Component	Material	CAS Number	Weight (mg)	%	PPM
<b>Die</b>					
	Sapphire:	1344-28-1	3.552046	4.99%	49,920
	Silicon	7440-21-3	0.000393	0.00%	6
	Silicon Dioxide	7631-86-9	0.019546	0.03%	275
	Silicon Nitride	12033-89-5	0.008526	0.01%	120
	Tungsten Silicide	12039-88-2	0.000464	0.00%	7
	Titanium	7440-33-6	0.000843	0.00%	12
	Titanium Nitride	25583-20-4	0.002085	0.00%	29
	Aluminium Alloy (98.5%-Al, 1%-Si, 0.5%-Cu)	7429-90-5	0.017489	0.02%	246
	Arsenic	7440-38-2	0.000002	0.00%	0
	Boron	7440-42-8	0.000497	0.00%	7
	Phosphorous	7723-14-0	0.000300	0.00%	4
<b>Package</b>					
Leadframe 421950	Copper (Cu)	7440-50-8	25.906800	36.41%	364,089
	Iron (Fe)	7439-89-6	0.624400	0.88%	8,775
	Zinc (Zn)	7440-66-6	0.031900	0.04%	448
	Phosphorus (P)	7723-14-0	0.008000	0.01%	112
	Ag (weight estimate)	7440-22-4	0.379400	0.53%	5,332
Die Attach	Silver (65 - 85)	7440-22-4	0.337500	0.47%	4,743
	Acrylate Resin (15 - 25)	Proprietary	0.031800	0.04%	447
	2-Butoxyethyl Acetate (1-5)	1121-07-2	0.013900	0.02%	195
	2-(2-Butoxyethoxy) ethyl Acetate (1-5)	124-17-4	0.013900	0.02%	195
Gold Wire	Au	7440-57-5	0.069400	0.10%	975
100% Matte Tin Lead Finish	Sn	7440-31-5	1.109100	1.56%	15,587
Mold Compound	Silica Fused (75-95)	60676-86-0	31.995600	50.30%	502,951
	Epoxy Resin (1-5)	Trade secret	1.561100	2.19%	21,939
	Phenol Resin (1-5)	Trade secret	1.561100	2.19%	21,939
	Carbon Black (0.1-0.5)	1333-86-4	0.117100	0.19%	1,647
<b>Total Weight (mg)</b>			<b>67.363191</b>	<b>100.00%</b>	<b>1,000,000</b>