

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE42552
Ordering Codes:	PE42552MLIB; PE42552MLIB-Z
Description:	SPDT RF Switch
Package:	16L 3X3 QFN
RoHS Compliant	Yes
Lead Finish	100% Matte Tin
Availability	TBD

Component	Material	CAS Number	Weight (mg)	%	PPM
Die					
	Sapphire:	1344-28-1	0.940523	2.73%	27,327
	Silicon	7440-21-3	0.000163	0.00%	5
	Silicon Dioxide	7631-86-9	0.002914	0.01%	85
	Silicon Nitride	12033-89-5	0.001715	0.00%	50
	Tungsten Silicide	12039-88-2	0.000187	0.00%	5
	Titanium	7440-33-6	0.001690	0.00%	49
	Titanium Nitride	25583-20-4	0.000487	0.00%	14
	Aluminium Alloy (98.5%-Al, 1%-Si, 0.5%-Cu)	7429-90-5	0.002233	0.01%	65
	Arsenic	7440-38-2	0.000085	0.00%	2
	Boron	7440-42-8	0.000069	0.00%	2
	Phosphorous	7723-14-0	0.000061	0.00%	2
Package					
Leadframe	Copper (Cu)	7440-50-8	11.070002	32.16%	321,637
	Iron (Fe)	7439-89-6	0.266816	0.78%	7,752
	Zinc (Zn)	7440-66-6	0.013625	0.04%	396
	Phosphorus (P)	7723-14-0	0.003406	0.01%	99
	Ag (weight estimate)	7440-22-4	0.134400	0.39%	3,905
Die Attach	Silver (65 - 85)	7440-22-4	0.073019	0.21%	2,122
	Epoxy Resin (15 - 25)	9003-36-5	0.019472	0.06%	566
	t-Butyl phenyl glycidyl ether (5-10)	3101-60-8	0.007301	0.02%	212
	Phenolic harder (1-2)	92-88-6	0.001460	0.00%	42
	Butyl cellosolve acetate (0.5-1.5)	112-07-2	0.000974	0.00%	28
Gold Wire	Au	7440-57-5	0.208400	0.61%	6,055
	Ag	7440-22-4	0.000036	0.00%	1
	Cu	7440-50-8	0.000036	0.00%	1
	Fe	7439-89-6	0.000072	0.00%	2
	Mg	7439-95-4	0.000036	0.00%	1
	Ca	7440-70-2	0.000036	0.00%	1
	Be	7440-41-7	0.000179	0.00%	5
100% Matte Tin Lead Finish	Sn	7440-31-5	0.630560	1.83%	18,321
Mold Compound	Silica Fused (75-95)	60676-86-0	6.599255	56.45%	564,513
	Epoxy Resin (1-5)	Trade secret	1.023585	2.98%	29,740
	Phenol Resin (1-5)	Trade secret	0.511793	1.50%	14,871
	Carbon Black (0.1-0.5)	1333-86-4	0.073113	0.21%	2,124
Total Weight (mg)			21.587703	100.00%	1,000,000