

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE4257
Ordering Codes:	4257-51; 4257-52
Description:	Absorptive SPDT RF Switch - 50 Ohm
Package:	20L 4X4 QFN
RoHS Compliant	Yes
Lead Finish	100% Matte Tin
Availability	Now

Component	Material	CAS Number	Weight (mg)	%	PPM
Die					
	Sapphire:	1344-28-1	1.328922	3.05%	30,512
	Silicon	7440-21-3	0.000254	0.00%	6
	Silicon Dioxide	7631-86-9	0.005236	0.01%	120
	Silicon Nitride	12033-89-5	0.003110	0.01%	71
	Tungsten Silicide	12039-88-2	0.000241	0.00%	6
	Titanium	7440-33-6	0.000279	0.00%	6
	Titanium Nitride	25583-20-4	0.000808	0.00%	19
	Aluminium Alloy (98.5%-Al, 1%-Si, 0.5%-Cu)	7429-90-5	0.003645	0.01%	84
	Arsenic	7440-38-2	0.000001	0.00%	0
	Boron	7440-42-8	0.000121	0.00%	3
	Phosphorous	7723-14-0	0.000110	0.00%	3
Package					
Leadframe 421950	Copper (Cu)	7440-50-8	13.837525	31.77%	317,712
	Iron (Fe)	7439-89-6	0.333520	0.77%	7,658
	Zinc (Zn)	7440-66-6	0.017031	0.04%	391
	Phosphorus (P)	7723-14-0	0.004258	0.01%	98
	Ag (weight estimate)	7440-22-4	0.168000	0.39%	3,857
Die Attach	Silver (65 - 85)	7440-22-4	0.129812	0.30%	2,981
	Epoxy Resin (15 - 25)	9003-36-5	0.034617	0.08%	795
	t-Butyl phenyl glycidyl ether (5-10)	3101-60-8	0.012981	0.03%	298
	Phenolic harder (1-2)	92-88-6	0.002596	0.01%	60
	Butyl cellosolve acetate (0.5-1.5)	112-07-2	0.001731	0.00%	40
Gold Wire	Au	7440-57-5	0.260500	0.60%	5,981
	Ag	7440-22-4	0.000045	0.00%	1
	Cu	7440-50-8	0.000045	0.00%	1
	Fe	7439-89-6	0.000090	0.00%	2
	Mg	7439-95-4	0.000045	0.00%	1
	Ca	7440-70-2	0.000045	0.00%	1
	Be	7440-41-7	0.000224	0.00%	5
100% Matte Tin Lead Finish	Sn	7440-31-5	0.788200	1.81%	18,097
Mold Compound	Silica Fused (75-95)	60676-86-0	21.495851	54.12%	541,160
	Epoxy Resin (1-5)	Trade secret	1.941022	4.46%	44,566
	Phenol Resin (1-5)	Trade secret	0.970511	2.23%	22,283
	Carbon Black (0.1-0.5)	1333-86-4	0.138644	0.30%	3,182
Total Weight (mg)			41.480020	100.00%	1,000,000