

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE4259
Ordering Codes:	4259-63
Description:	SPDT High Power UltraCMOS 10 MHz - 3.0 GHz RF Switch
Package:	6L SC-70
Environmental Compliance	EU RoHS3 Directive 2011/65/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
Lead Finish	NiPdAu
Availability	Now

Component	Material	CAS Number	Weight (mg)	%	PPM
Die					
Die	Aluminum oxide	1344-28-1	0.141036	2.06%	20,641
	Aluminum	7429-90-5	0.000429	0.01%	63
	Silicon	7440-21-3	0.000029	0.00%	4
	Arsenic*	7440-38-2	0.000000	0.00%	0
	Boron*	7440-42-8	0.000000	0.00%	0
	Phosphorous*	7723-14-0	0.000000	0.00%	0
	Titanium	7440-32-6	0.000072	0.00%	10
	Tungsten	7440-33-7	0.001430	0.02%	209
	Cobalt	7440-48-4	0.000003	0.00%	0
	Copper	7440-50-8	0.000001	0.00%	0
Package					
Leadframe & Plating	Copper	7440-50-8	2.736100	40.04%	400,430
	Iron	7439-89-6	0.066600	0.97%	9,747
	Lead	7439-92-1	0.000300	0.00%	44
	Phosphorus	7723-14-0	0.002300	0.03%	337
	Zinc	7440-66-6	0.003500	0.05%	512
	Nickel	7440-02-0	0.022700	0.33%	3,322
	Palladium	7440-05-3	0.000500	0.01%	73
	Gold	7440-57-5	0.000300	0.00%	44
Die Attach	Silver	7440-22-4	0.028400	0.42%	4,156
	Reaction product: bisphenol-F-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)	9003-36-5	0.008200	0.12%	1,200
	1,4-Bis(2,3-epoxypropoxy) butane	2425-79-8	0.002300	0.03%	337
Gold Wire	Dapsone	80-08-0	0.002300	0.03%	337
	Gold	7440-57-5	0.038600	0.56%	5,649
Mold Compound	Epoxy Resin	Trade secret	0.188900	2.76%	27,646
	Epoxy, Cresol Novoloac	29690-82-2	0.075600	1.11%	11,064
	Phenol Resin	Trade secret	0.188900	2.76%	27,646
	Carbon Black	1333-86-4	0.011300	0.17%	1,654
	Silica Fused	60676-86-0	3.313100	48.49%	484,875
Total Weight (mg)			6.832899	100.00%	1,000,000

Note *: Some dopants are in PPB range and therefore do not appear in PPM level reported.