

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE4230
Ordering Codes:	4230-51, 4230-52
Description:	SPDT High Power UltraCMOS RF Switch
Package:	8L MSOP
Environmental Compliance	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
Lead Finish	100% Matte Tin
Availability	Now

Component	Material	CAS Number	Weight (mg)	%	PPM
Die					
	Sapphire (Al ₂ O ₃)	1344-28-1	0.962604	3.68%	36,799
	Silicon (Si)	7440-21-3	0.000320	0.00%	12
	Arsenic (As)	7440-38-2	0.000002	0.00%	0
	Boron (B)	7440-42-8	0.000000	0.00%	0
	Phosphorous (P)	7723-14-0	0.000107	0.00%	4
	Titanium (Ti)	7440-32-6	0.000037	0.00%	1
	Tungsten (W)	7440-33-7	0.000003	0.00%	0
	Copper (Cu)	7440-50-8	0.000005	0.00%	0
	Aluminum (Al)	7429-90-5	0.001603	0.01%	61
	Cobalt (Co)	7440-48-4	0.000000	0.00%	0
Package					
Leadframe	Copper (Cu)	7440-50-8	9.503000	36.33%	363,290
	Nickel (Ni)	7440-02-0	0.296400	1.13%	11,331
	Silicon (Si)	7440-21-3	0.064200	0.25%	2,454
	Magnesium (Mg)	7439-95-4	0.014800	0.06%	566
	Silver (Ag)	7440-22-4	0.247500	0.95%	9,462
Die Attach	Silver (Ag)	7440-22-4	0.213800	0.82%	8,173
	Epichlorohydrin-formaldehyde-phenol copolymer	9003-36-5	0.014300	0.05%	547
	Epoxy Resin	68475-94-5	0.014300	0.05%	547
	Lactone	96-48-0	0.014300	0.05%	547
	Polyoxypropylenediamine	9046-10-0	0.014300	0.05%	547
	2,6-Diglycidyl phenyl allyl ether oligomer	Proprietary	0.014300	0.05%	547
Gold Wire	Gold (Au)	7440-57-5	0.104500	0.40%	3,995
100% Matte Tin Lead Finish	Tin (Sn)	7440-31-5	0.851800	3.26%	32,563
Mold Compound	Silica Fused	60676-86-0	11.987100	45.83%	458,254
	Epoxy Resin	Trade secret	0.829600	3.17%	31,715
	Epoxy, Cresol Novolac	29690-82-2	0.276500	1.06%	10,570
	Phenol Resin	Trade secret	0.691300	2.64%	26,428
	Carbon Black	1333-86-4	0.041500	0.16%	1,587
Total Weight (mg)			26.158180	100.00%	1,000,000