

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE4231
Ordering Codes:	4231-01, 4231-02, 4231-51, 4231-52
Description:	SPDT High Power UltraCMOS DC - 1.3 GHz 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	3.84%	38,391
	Silicon (Si)	7440-21-3	0.000320	0.00%	13
	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%	64
	Cobalt (Co)	7440-48-4	0.000000	0.00%	0
Package					
Leadframe	Copper (Cu)	7440-50-8	9.503000	37.90%	379,006
	Nickel (Ni)	7440-02-0	0.296400	1.18%	11,821
	Silicon (Si)	7440-21-3	0.064200	0.26%	2,560
	Magnesium (Mg)	7439-95-4	0.014800	0.06%	590
	Silver (Ag)	7440-22-4	0.185700	0.74%	7,406
Die Attach	Silver (Ag)	7440-22-4	0.204400	0.82%	8,152
	Epichlorohydrin-formaldehyde-phenol copolymer	9003-36-5	0.013600	0.05%	542
	Epoxy Resin	68475-94-5	0.013600	0.05%	542
	Lactone	96-48-0	0.013600	0.05%	542
	Polyoxypropylenediamine	9046-10-0	0.013600	0.05%	542
	2,6-Diglycidyl phenyl allyl ether oligomer	Proprietary	0.013600	0.05%	542
Gold Wire	Gold (Au)	7440-57-5	0.104500	0.42%	4,168
100% Matte Tin Lead Finish	Tin (Sn)	7440-31-5	0.851800	3.40%	33,972
Mold Compound	Silica Fused	60676-86-0	11.111500	44.32%	443,157
	Epoxy Resin	Trade secret	0.769000	3.07%	30,670
	Epoxy, Cresol Novolac	29690-82-2	0.256300	1.02%	10,222
	Phenol Resin	Trade secret	0.640800	2.56%	25,557
	Carbon Black	1333-86-4	0.038400	0.15%	1,531
Total Weight (mg)			25.073480	100.00%	1,000,000