

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE4251
Ordering Codes:	PE4251MLI, PE4251MLI-Z
Description:	SPDT UltraCMOS™ RF Switch, 10 – 3000 MHz, Absorptive
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	0.685690	2.71%	27,129
	Silicon (Si)	7440-21-3	0.000228	0.00%	9
	Arsenic (As)	7440-38-2	0.000001	0.00%	0
	Boron (B)	7440-42-8	0.000000	0.00%	0
	Phosphorous (P)	7723-14-0	0.000077	0.00%	3
	Titanium (Ti)	7440-32-6	0.000026	0.00%	1
	Tungsten (W)	7440-33-7	0.000002	0.00%	0
	Copper (Cu)	7440-50-8	0.000004	0.00%	0
	Aluminum (Al)	7429-90-5	0.001142	0.00%	45
	Cobalt (Co)	7440-48-4	0.000000	0.00%	0
Package					
Leadframe	Copper (Cu)	7440-50-8	9.430300	37.31%	373,111
	Nickel (Ni)	7440-02-0	0.294100	1.16%	11,636
	Silicon (Si)	7440-21-3	0.063700	0.25%	2,520
	Magnesium (Mg)	7439-95-4	0.014700	0.06%	582
	Silver (Ag)	7440-22-4	0.185700	0.73%	7,347
Die Attach	Silver (Ag)	7440-22-4	0.278900	1.10%	11,035
	Epichlorohydrin-formaldehyde-phenol copolymer	9003-36-5	0.018600	0.07%	736
	Epoxy Resin	68475-94-5	0.018600	0.07%	736
	Lactone	96-48-0	0.018600	0.07%	736
	Polyoxypropylenediamine	9046-10-0	0.018600	0.07%	736
	2,6-Diglycidyl phenyl allyl ether oligomer	Proprietary	0.018600	0.07%	736
Gold Wire	Gold (Au)	7440-57-5	0.078000	0.31%	3,086
100% Matte Tin Lead Finish	Tin (Sn)	7440-31-5	0.926600	3.67%	36,661
Mold Compound	Silica Fused	60676-86-0	11.463900	45.36%	453,571
	Epoxy Resin	Trade secret	0.793400	3.14%	31,391
	Epoxy, Cresol Novolac	29690-82-2	0.264500	1.05%	10,465
	Phenol Resin	Trade secret	0.661100	2.62%	26,157
	Carbon Black	1333-86-4	0.039700	0.16%	1,571
Total Weight (mg)			25.274769	100.00%	1,000,000