

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE4256
Ordering Codes:	4256-51, 4256-52
Description:	75 Ohm SPDT CATV UltraCMOS Switch 5 MHz - 3.0 GHz
Package:	20L 4X4 QFN
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	0.905737	2.10%	21,009
	Silicon (Si)	7440-21-3	0.000301	0.00%	7
	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	0.000101	0.00%	2
	Titanium (Ti)	7440-32-6	0.000035	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	0.001508	0.00%	35
	Cobalt (Co)	7440-48-4	0.000000	0.00%	0
Package					
Leadframe	Copper (Cu)	7440-50-8	13.633600	31.62%	316,232
	Iron (Fe)	7439-89-6	0.328600	0.76%	7,622
	Zinc (Zn)	7440-66-6	0.016800	0.04%	390
	Phosphorus (P)	7723-14-0	0.004200	0.01%	97
	Silver (Ag)	7440-22-4	0.377200	0.87%	8,749
Die Attach	Silver (Ag)	7440-22-4	0.124600	0.29%	2,890
	Epoxy Resin	9003-36-5	0.031200	0.07%	724
	t-Butyl phenyl glycidyl ether	3101-60-8	0.013000	0.03%	302
	Phenolic hardener	92-88-6	0.002600	0.01%	60
	Butyl cellosolve acetate	112-07-2	0.001700	0.00%	39
Gold Wire	Gold (Au)	7440-57-5	0.260500	0.60%	6,042
100% Matte Tin Lead Finish	Tin (Sn)	7440-31-5	0.791200	1.84%	18,352
Mold Compound	Silica Fused	60676-86-0	24.410200	56.62%	566,197
	Epoxy Resin	Trade secret	1.064800	2.47%	24,698
	Phenol Resin	Trade secret	1.064800	2.47%	24,698
	Carbon Black	1333-86-4	0.079900	0.19%	1,853
Total Weight (mg)			43.112590	100.00%	1,000,000

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE4256
Ordering Codes:	PE4256MLIAA, PE4256MLIAA-Z
Description:	75 Ohm SPDT CATV UltraCMOS Switch 5 MHz - 3.0 GHz
Package:	20L 4X4 QFN
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	NiPdAu
Availability	Now

Component	Material	CAS Number	Weight (mg)	%	PPM
Die					
	Sapphire (Al ₂ O ₃)	1344-28-1	0.905737	2.25%	22,469
	Silicon (Si)	7440-21-3	0.000301	0.00%	7
	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	0.000101	0.00%	3
	Titanium (Ti)	7440-32-6	0.000035	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	0.001508	0.00%	37
	Cobalt (Co)	7440-48-4	0.000000	0.00%	0
Package					
Leadframe	Copper (Cu)	7440-50-8	15.510800	38.48%	384,779
	Iron (Fe)	7439-89-6	0.373900	0.93%	9,275
	Zinc (Zn)	7440-66-6	0.019100	0.05%	474
	Phosphorus (P)	7723-14-0	0.004800	0.01%	119
Die Attach	Silver (Ag)	7440-22-4	0.130900	0.32%	3,247
	Epoxy Resin	9003-36-5	0.016400	0.04%	407
	Diluent	26447-14-3	0.009800	0.02%	243
	Dicyandiamide	461-58-5	0.001600	0.00%	40
	Hardener	620-92-8	0.004900	0.01%	122
Gold Wire	Gold (Au)	7440-57-5	0.301300	0.75%	7,474
Internal Plating	Nickel (Ni)	7440-02-0	0.071600	0.18%	1,776
	Palladium (Pd)	7440-05-3	0.005800	0.01%	144
	Gold (Au)	7440-57-5	0.000200	0.00%	5
External Plating	Nickel (Ni)	7440-02-0	0.047700	0.12%	1,183
	Palladium (Pd)	7440-05-3	0.003900	0.01%	97
	Gold (Au)	7440-57-5	0.000160	0.00%	4
Mold Compound	Silica Fused	60676-86-0	20.999700	52.09%	520,943
	Epoxy Resin	Trade secret	0.916000	2.27%	22,723
	Phenol Resin	Trade secret	0.916000	2.27%	22,723
	Carbon Black	1333-86-4	0.068700	0.17%	1,704
Total Weight (mg)			40.310950	100.00%	1,000,000