

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE4259
Ordering Codes:	4259-51, 4259-52
Description:	SPDT High Power UltraCMOS 10 MHz - 3.0 GHz RF Switch
Package:	6L SC-70
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	0.218961	3.46%	34,605
	Silicon (Si)	7440-21-3	0.000073	0.00%	12
	Arsenic (As)	7440-38-2	0.000000	0.00%	0
	Boron (B)	7440-42-8	0.000000	0.00%	0
	Phosphorous (P)	7723-14-0	0.000024	0.00%	4
	Titanium (Ti)	7440-32-6	0.000008	0.00%	1
	Tungsten (W)	7440-33-7	0.000001	0.00%	0
	Copper (Cu)	7440-50-8	0.000001	0.00%	0
	Aluminum (Al)	7429-90-5	0.000365	0.01%	58
	Cobalt (Co)	7440-48-4	0.000000	0.00%	0
Package					
Leadframe	Copper (Cu)	7440-50-8	2.828800	44.71%	447,069
	Iron (Fe)	7439-89-6	0.068200	1.08%	10,778
	Zinc (Zn)	7440-66-6	0.003500	0.06%	553
	Phosphorus (P)	7723-14-0	0.000900	0.01%	142
	Silver (Ag)	7440-22-4	0.041800	0.66%	6,606
Die Attach	Silver (Ag)	7440-22-4	0.040700	0.64%	6,432
	Epoxy Resin	9003-36-5	0.008100	0.13%	1,280
	1,4-Bis(2,3-epoxypropoxy) Butane	2425-79-8	0.002700	0.04%	427
Gold Wire	Aromatic Amine	Proprietary	0.002700	0.04%	427
	Gold (Au)	7440-57-5	0.050200	0.79%	7,934
100% Matte Tin Lead Finish	Tin (Sn)	7440-31-5	0.224300	3.54%	35,449
Mold Compound	Silica Fused	60676-86-0	2.458900	38.86%	388,609
	Epoxy Resin	Trade secret	0.170200	2.69%	26,899
	Epoxy, Cresol Novolac	29690-82-2	0.056700	0.90%	8,961
	Phenol Resin	Trade secret	0.141800	2.24%	22,410
	Carbon Black	1333-86-4	0.008500	0.13%	1,343
Total Weight (mg)			6.327433	100.00%	1,000,000

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE4259
Ordering Codes:	4259-62, 4259-63
Description:	SPDT High Power UltraCMOS 10 MHz - 3.0GHz RF Switch
Package:	6L SC-70
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	0.218961	3.16%	31,560
	Silicon (Si)	7440-21-3	0.000073	0.00%	10
	Arsenic (As)	7440-38-2	0.000000	0.00%	0
	Boron (B)	7440-42-8	0.000000	0.00%	0
	Phosphorous (P)	7723-14-0	0.000024	0.00%	4
	Titanium (Ti)	7440-32-6	0.000008	0.00%	1
	Tungsten (W)	7440-33-7	0.000001	0.00%	0
	Copper (Cu)	7440-50-8	0.000001	0.00%	0
	Aluminum (Al)	7429-90-5	0.000365	0.01%	53
	Cobalt (Co)	7440-48-4	0.000000	0.00%	0
Package					
Leadframe	Nickel (Ni)	7440-02-0	0.013000	0.19%	1,874
	Zinc (Zn)	7440-66-6	0.003400	0.05%	490
	Iron (Fe)	7439-89-6	0.064800	0.93%	9,340
	Phosphorus (P)	7723-14-0	0.002300	0.03%	332
	Gold (Au)	7440-57-5	0.000200	0.00%	29
	Palladium (Pd)	7440-05-3	0.001000	0.01%	144
	Copper (Cu)	7440-50-8	2.672700	38.52%	385,236
Die Attach	Silver (Ag)	7440-22-4	0.091000	1.31%	13,116
	Epoxy Resin	Trade secret	0.018000	0.26%	2,594
	1,4 - butanedioldiglycidyl ether	2425-79-8	0.009000	0.13%	1,297
	Amine	Trade secret	0.004000	0.06%	577
Gold Wire	Gold (Au)	7440-57-5	0.061000	0.88%	8,792
Mold Compound	Silica Fused	60676-86-0	3.313000	47.75%	477,527
	Epoxy Resin	Trade secret	0.189000	2.72%	27,242
	Epoxy, Cresol Novolac	29690-82-2	0.076000	1.10%	10,954
	Phenol Resin	Trade secret	0.189000	2.72%	27,242
	Carbon Black	1333-86-4	0.011000	0.16%	1,586
Total Weight (mg)			6.937833	100.00%	1,000,000