

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE42512
Ordering Codes:	PE42512A-X
Description:	UltraCMOS® SP12T RF Switch, 9 kHz–8 GHz
Package:	32L 5x5 QFN
Environmental Compliance	EU RoHS2 Directive 2011/65/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					
Die	Silicon	7440-21-3	3.477008	4.5685%	45,685
	Phosphorus*	7723-14-0	0.000017	0.0000%	0
	Boron*	7440-42-8	0.000017	0.0000%	0
	Arsenic*	7440-38-2	0.000017	0.0000%	0
	Germanium*	7440-56-4	0.000017	0.0000%	0
	Indium*	7440-74-6	0.000017	0.0000%	0
	Cobalt*	7440-48-4	0.000017	0.0000%	0
	Tungsten	7440-33-7	0.000654	0.0009%	9
	Copper	7440-50-8	0.019842	0.0261%	261
	Tantalum	7440-25-7	0.000941	0.0012%	12
Aluminum	7429-90-5	0.000364	0.0005%	5	
Package					
Leadframe	Copper	7440-50-8	38.211700	50.2072%	502,072
	Iron	7439-89-6	0.921500	1.2108%	12,108
	Zinc	7440-66-6	0.049000	0.0644%	644
	Phosphorus	7723-14-0	0.032400	0.0426%	426
	Nickel	7440-02-0	0.681000	0.8948%	8,948
	Palladium	7440-05-3	0.019000	0.0250%	250
	Gold	7440-57-5	0.006000	0.0079%	79
	Silver	7440-22-4	0.005000	0.0066%	66
Wire	Gold	7440-57-5	1.633000	2.1456%	21,456
Die Attach	Proprietary Acrylates	Trade secret	0.068700	0.0903%	903
	Silver	7440-22-4	0.422780	0.5555%	5,555
	Proprietary Bismaleimide	Trade secret	0.015850	0.0208%	208
	Methacrylate Ester	Trade secret	0.015850	0.0208%	208
	Proprietary Polymer	Trade secret	0.005280	0.0069%	69
Molding Compound	Epoxy resin	Trade secret	2.747000	3.6093%	36,093
	Silica Fused	60676-86-0	26.249000	34.4892%	344,892
	Phenol resin	Trade secret	1.373000	1.8040%	18,040
	Carbon black	1333-86-4	0.153000	0.2010%	2,010
Total Weight (mg)			76.107975	100.00%	1,000,000

Note: * concentration in PPB range.