

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE42721
Ordering Codes:	PE42721MLBA-Z
Description:	UltraCMOS® SPDT RF Switch 5-2200 MHz
Package:	12L 3X3 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	Aluminum oxide	1344-28-1	0.455500	2.22%	22,194
	Aluminum	7429-90-5	0.001386	0.01%	68
	Silicon	7440-21-3	0.000092	0.00%	5
	Arsenic*	7440-38-2	0.000000	0.00%	0
	Boron*	7440-42-8	0.000000	0.00%	0
	Phosphorous*	7723-14-0	0.000002	0.00%	0
	Titanium	7440-32-6	0.000231	0.00%	11
	Tungsten	7440-33-7	0.004618	0.02%	225
	Cobalt*	7440-48-4	0.000009	0.00%	0
	Copper*	7440-50-8	0.000004	0.00%	0
Package					
Leadframe	Zinc	7440-66-6	0.009400	0.05%	458
	Iron	7439-89-6	0.176400	0.86%	8,595
	Phosphorus	7723-14-0	0.006200	0.03%	302
	Nickel	7440-02-0	0.097400	0.47%	4,746
	Gold	7440-57-5	0.002100	0.01%	102
	Silver	7440-22-4	0.001600	0.01%	78
	Palladium	7440-05-3	0.003700	0.02%	180
	Copper	7440-50-8	7.317200	35.65%	356,529
Die Attach	Silver	7440-22-4	0.184506	0.90%	8,990
	(Octahydro-4,7-methano-1Hindenediy) bis(methylene) diacrylate	42594-17-2	0.026740	0.13%	1,303
	exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	7534-94-3	0.026740	0.13%	1,303
	Isbornyl acrylate	5888-33-5	0.026740	0.13%	1,303
Gold Wire	2-(3,4-Epoxy cyclohexyl) ethyltrimethoxysilane	3388-04-3	0.002674	0.01%	130
	Gold (Au)	7440-57-5	0.000500	0.00%	24
Mold Compound	Epoxy Resin-1	Trade secret	0.426300	2.08%	20,771
	Epoxy Resin-2	Trade secret	0.243600	1.19%	11,869
	Phenol Resin	Trade secret	0.426300	2.08%	20,771
	Silica	60676-86-0	9.780200	47.65%	476,538
	Carbon black	1333-86-4	0.024400	0.12%	1,189
	Metal Hydroxide	Trade secret	0.669900	3.26%	32,641
	Others	-	0.609000	2.97%	29,673
Total Weight (mg)			20.523443	100.00%	1,000,000

Note: * Amount concentrations are in parts per billion (PPB) range and therefore appear as zero in parts per million (PPM).