

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE42520
Ordering Codes:	PE42520MLBA-Z
Description:	UltraCMOS® SPDT RF Switch 9 kHz - 13 GHz
Package:	16L 3X3 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	1.238956	5.35%	53,531
	Silicon (Si)	7440-21-3	0.000411	0.00%	18
	Arsenic (As)	7440-38-2	0.000002	0.00%	0
	Boron (B)	7440-42-8	0.000001	0.00%	0
	Phosphorous (P)	7723-14-0	0.000138	0.00%	6
	Titanium (Ti)	7440-32-6	0.000047	0.00%	2
	Tungsten (W)	7440-33-7	0.000004	0.00%	0
	Copper (Cu)	7440-50-8	0.000006	0.00%	0
	Aluminum (Al)	7429-90-5	0.002063	0.01%	89
	Cobalt (Co)	7440-48-4	0.000000	0.00%	0
Package					
Leadframe	Copper (Cu)	7440-50-8	9.054500	39.12%	391,211
	Chromium (Cr)	7440-47-3	0.022800	0.10%	985
	Tin (Sn)	7440-31-5	0.022800	0.10%	985
	Zinc (Zn)	7440-66-6	0.020100	0.09%	868
Internal Plating	Nickel (Ni)	7440-02-0	0.028600	0.12%	1,236
	Palladium (Pd)	7440-05-3	0.002300	0.01%	99
	Gold (Au)	7440-57-5	0.000100	0.00%	4
External Plating	Nickel (Ni)	7440-02-0	0.038000	0.16%	1,642
	Palladium (Pd)	7440-05-3	0.003100	0.01%	134
	Gold (Au)	7440-57-5	0.000100	0.00%	4
Die Attach	Silver (Ag)	7440-22-4	0.135200	0.58%	5,841
	2-Butoxyethyl Acetate	112-07-2	0.015200	0.07%	657
	2-Propenoic acid, 3-(trimethoxysilyl)propyl ester	4369-14-6	0.001500	0.01%	65
Gold Wire	Gold (Au)	7440-57-5	0.160600	0.69%	6,939
Mold Compound	Silica Fused	60676-86-0	11.369300	49.12%	491,224
	Epoxy Resin	Trade secret	0.495900	2.14%	21,426
	Phenol Resin	Trade secret	0.495900	2.14%	21,426
	Carbon Black	1333-86-4	0.037200	0.16%	1,607
Total Weight (mg)			23.144828	100.00%	1,000,000