

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE42821
Ordering Codes:	PE42821MLBA-Z, PE42821MLBA-X
Description:	UltraCMOS® SPDT RF Switch 100 - 2700 MHz
Package:	32L 5x5 mm 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	3.187085	4.86%	48,566
	Silicon (Si)	7440-21-3	0.001058	0.00%	16
	Arsenic (As)	7440-38-2	0.000005	0.00%	0
	Boron (B)	7440-42-8	0.000001	0.00%	0
	Phosphorous (P)	7723-14-0	0.000356	0.00%	5
	Titanium (Ti)	7440-32-6	0.000122	0.00%	2
	Tungsten (W)	7440-33-7	0.000010	0.00%	0
	Copper (Cu)	7440-50-8	0.000016	0.00%	0
	Aluminum (Al)	7429-90-5	0.005306	0.01%	81
	Cobalt (Co)	7440-48-4	0.000000	0.00%	0
Package					
Leadframe	Copper (Cu)	7440-50-8	26.724200	40.72%	407,233
	Iron (Fe)	7439-89-6	0.644100	0.98%	9,815
	Zinc (Zn)	7440-66-6	0.032900	0.05%	501
	Phosphorus (P)	7723-14-0	0.008200	0.01%	125
Die Attach	Silver (Ag)	7440-22-4	0.327500	0.50%	4,991
	Epoxy Resin	9003-36-5	0.040900	0.06%	623
	Diluent	26447-14-3	0.024600	0.04%	375
	Dicandiamide	461-58-5	0.004100	0.01%	62
	Hardener	620-92-8	0.012300	0.02%	187
Gold Wire	Gold (Au)	7440-57-5	0.302500	0.46%	4,610
Internal Plating	Nickel (Ni)	7440-02-0	0.077570	0.12%	1,182
	Palladium (Pd)	7440-05-3	0.006280	0.01%	96
	Gold (Au)	7440-57-5	0.000250	0.00%	4
External Plating	Nickel (Ni)	7440-02-0	0.102800	0.16%	1,567
	Palladium (Pd)	7440-05-3	0.008300	0.01%	126
	Gold (Au)	7440-57-5	0.000330	0.00%	5
Mold Compound	Silica Fused	60676-86-0	31.281700	47.67%	476,682
	Epoxy Resin	Trade secret	1.364500	2.08%	20,793
	Phenol Resin	Trade secret	1.364500	2.08%	20,793
	Carbon Black	1333-86-4	0.102300	0.16%	1,559
Total Weight (mg)			65.623789	100.00%	1,000,000