

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE613050
Ordering Codes:	PE613050A-Z
Description:	UltraCMOS SP4T Tuning Switch Optimized for 2G/3G/4G Tuning Applications, 5 - 3000 MHz
Package:	12L 2x2 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	0.770212	6.25%	62,492
	Aluminum	7429-90-5	0.002343	0.02%	190
	Silicon	7440-21-3	0.000156	0.00%	13
	Arsenic*	7440-38-2	0.000001	0.00%	0
	Boron*	7440-42-8	0.000000	0.00%	0
	Phosphorous*	7723-14-0	0.000003	0.00%	0
	Titanium	7440-32-6	0.000390	0.00%	32
	Tungsten	7440-33-7	0.007809	0.06%	634
	Cobalt	7440-48-4	0.000016	0.00%	1
	Copper	7440-50-8	0.000006	0.00%	1
Package					
Leadframe	Copper	7440-50-8	10.063000	81.65%	816,475
	Iron	7439-89-6	0.243000	1.97%	19,716
	Zinc	7440-66-6	0.013000	0.11%	1,055
	Phosphorus	7723-14-0	0.009000	0.07%	730
Leadframe Plating	Nickel	7440-02-0	0.154000	1.25%	12,495
	Palladium	7440-05-3	0.006000	0.05%	487
	Gold	7440-57-5	0.005000	0.04%	406
Die Attach	Proprietary acrylates	Trade secret	0.016000	0.13%	1,298
	Silver	7440-22-4	0.096000	0.78%	7,789
	Proprietary bismaleimide	Trade secret	0.004000	0.03%	325
	Methacrylate ester	Trade secret	0.004000	0.03%	325
	Proprietary polymer	Trade secret	0.001000	0.01%	81
Wire	Gold	7440-57-5	0.018000	0.15%	1,460
Molding Compound	Silica Fused	60676-86-0	0.784000	6.36%	63,611
	Multi-aromatic resin	Trade secret	0.128000	1.04%	10,385
Total Weight (mg)			12.324937	100.00%	1,000,000

Note: * Amount concentrations are in PPB.