

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE4140
Ordering Codes:	4140-51, 4140-52
Description:	Ultra-High Linearity UltraCMOS Broadband Quad MOSFET Array
Package:	6L DFN
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	100% Matte Tin
Availability	Now

Component	Material	CAS Number	Weight (mg)	%	PPM
Die					
	Sapphire (Al ₂ O ₃)	1344-28-1	0.451562	2.14%	21,361
	Silicon (Si)	7440-21-3	0.000150	0.00%	7
	Arsenic (As)	7440-38-2	0.000001	0.00%	0
	Boron (B)	7440-42-8	0.000000	0.00%	0
	Phosphorous (P)	7723-14-0	0.000050	0.00%	2
	Titanium (Ti)	7440-32-6	0.000017	0.00%	1
	Tungsten (W)	7440-33-7	0.000001	0.00%	0
	Copper (Cu)	7440-50-8	0.000002	0.00%	0
	Aluminum (Al)	7429-90-5	0.000752	0.00%	36
	Cobalt (Co)	7440-48-4	0.000000	0.00%	0
Package					
Leadframe	Copper (Cu)	7440-50-8	7.795600	36.88%	368,765
	Iron (Fe)	7439-89-6	0.187900	0.89%	8,888
	Zinc (Zn)	7440-66-6	0.009600	0.05%	454
	Phosphorus (P)	7723-14-0	0.002400	0.01%	114
	Silver (Ag)	7440-22-4	0.206400	0.98%	9,764
Die Attach	Silver (Ag)	7440-22-4	0.199900	0.95%	9,456
	Epoxy Resin	9003-36-5	0.050000	0.24%	2,365
	t-Butyl phenyl glycidyl ether	3101-60-8	0.020800	0.10%	984
	Phenolic harder	92-88-6	0.004200	0.02%	199
	Butyl cellosolve acetate	112-07-2	0.002800	0.01%	132
Gold Wire	Gold (Au)	7440-57-5	0.088500	0.42%	4,186
100% Matte Tin Lead Finish	Tin (Sn)	7440-31-5	0.114900	0.54%	5,435
Mold Compound	Silica Fused	60676-86-0	11.007800	52.07%	520,716
	Epoxy Resin	Trade secret	0.480200	2.27%	22,716
	Phenol Resin	Trade secret	0.480200	2.27%	22,716
	Carbon Black	1333-86-4	0.036000	0.17%	1,703
Total Weight (mg)			21.139736	100.00%	1,000,000