

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE64101
Ordering Codes:	PE64101MLAA-Z
Description:	UltraCMOS® Digitally Tunable Capacitor (DTC) 100 - 3000 MHz
Package:	12L 2X2 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	0.389968	5.02%	50,160
	Silicon (Si)	7440-21-3	0.000129	0.00%	17
	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	0.000044	0.00%	6
	Titanium (Ti)	7440-32-6	0.000015	0.00%	2
	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	0.000649	0.01%	84
	Cobalt (Co)	7440-48-4	0.000000	0.00%	0
Package					
Leadframe	Copper (Cu)	7440-50-8	3.863400	49.69%	496,937
	Chromium (Cr)	7440-47-3	0.009700	0.12%	1,248
	Tin (Sn)	7440-31-5	0.009700	0.12%	1,248
	Zinc (Zn)	7440-66-6	0.008600	0.11%	1,106
Die Attach	Silver (Ag)	7440-22-4	0.030100	0.39%	3,872
	Methacrylate	Proprietary	0.008000	0.10%	1,029
	1,1'-(1,3-Phenylene)bis-1H-pyrrole-2,5-dione	Proprietary	0.002000	0.03%	257
Gold Wire	Gold (Au)	7440-57-5	0.120800	1.55%	15,538
Internal Plating	Nickel (Ni)	7440-02-0	0.012330	0.16%	1,586
	Palladium (Pd)	7440-05-3	0.001000	0.01%	129
	Gold (Au)	7440-57-5	0.000040	0.00%	5
External Plating	Nickel (Ni)	7440-02-0	0.016300	0.21%	2,097
	Palladium (Pd)	7440-05-3	0.001300	0.02%	167
	Gold (Au)	7440-57-5	0.000050	0.00%	6
Mold Compound	Silica Fused	60676-86-0	3.026400	38.93%	389,276
	Epoxy Resin	Trade secret	0.132000	1.70%	16,979
	Phenol Resin	Trade secret	0.132000	1.70%	16,979
	Carbon Black	1333-86-4	0.009900	0.13%	1,273
Total Weight (mg)			7.774429	100.00%	1,000,000