

pSEMI MATERIAL DECLARATION FORM

Product:	PE42442
Ordering Codes:	PE42442A-Z
Description:	SP4T Absorptive UltraCMOS® High-Isolation RF Switch 30 MHz--6 GHz, VssEXT option
Package:	24-lead 4x4 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	Ni/Pd/Au
Availability	Now

Component	Material	CAS Number	Weight (mg)	%	PPM
Die	Sapphire (Al ₂ O ₃)	1344-28-1	1.937443	4.85%	48,508.19
Die	Silicon (Si)	7440-21-3	0.000643	0.00%	16.10
Die	Arsenic (As)	7440-38-2	0.000003	0.00%	0.08
Die	Boron (B)	7440-42-8	0.000001	0.00%	0.02
Die	Phosphorous (P)	7723-14-0	0.000216	0.00%	5.42
Die	Titanium (Ti)	7440-32-6	0.000074	0.00%	1.86
Die	Tungsten (W)	7440-33-7	0.000006	0.00%	0.15
Die	Copper (Cu)	7440-50-8	0.000010	0.00%	0.25
Die	Aluminum (Al)	7429-90-5	0.003225	0.01%	80.76
Die	Cobalt (Co)	7440-48-4	0.000000	0.00%	0.00
LeadFrame	Copper (Cu)	7440-50-8	18.336300	45.91%	459,090.15
LeadFrame	Iron (Fe)	7439-89-6	0.432500	1.08%	10,828.60
LeadFrame	Zinc (Zn)	7440-66-6	0.028200	0.07%	706.05
LeadFrame	Phosphorous (P)	7723-14-0	0.005600	0.01%	140.21
Die Attach	Silver (Ag)	7440-22-4	0.166800	0.42%	4,176.21
Die Attach	Epoxy Resin	9003-36-5	0.020900	0.05%	523.28
Die Attach	Diluent	26447-14-3	0.012500	0.03%	312.97
Die Attach	Dicyandiamide	461-58-5	0.002100	0.01%	52.58
Die Attach	Hardener	620-92-8	0.006300	0.02%	157.73
Gold Wire	Gold (Au)	7440-57-5	0.440600	1.10%	11,031.40
Internal Plating	Nickel (Ni)	7440-02-0	0.053700	0.13%	1,344.50
Internal Plating	Paladium (Pd)	7440-05-3	0.004400	0.01%	110.16
Internal Plating	Gold (Au)	7440-57-5	0.000200	0.00%	5.01
External Plating	Nickel (Ni)	7440-02-0	0.071200	0.18%	1,782.65
External Plating	Paladium (Pd)	7440-05-3	0.005800	0.01%	145.22
External Plating	Gold (Au)	7440-57-5	0.000200	0.00%	5.01
Mold Compound	Silica Fused	60676-86-0	16.883400	42.27%	422,713.56
Mold Compound	Epoxy Resin	Trade Secret	0.736500	1.84%	18,439.92
Mold Compound	Phenol Resin	Trade Secret	0.736500	1.84%	18,439.92
Mold Compound	Carbon Black	1333-86-4	0.055200	0.14%	1,382.06
Total Weight (mg)			39.940521	100.00%	1,000,000

