

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE4309
Ordering Codes:	4309-51, 4309-52
Description:	50 Ohm Digital Attenuator 6-bit, 31.5 dB, DC - 4.0 GHz
Package:	24L 4X4 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	100% Matte Tin
Availability	Now

Component	Material	CAS Number	Weight (mg)	%	PPM
Die					
	Sapphire (Al ₂ O ₃)	1344-28-1	1.352162	3.15%	31,539
	Silicon (Si)	7440-21-3	0.000449	0.00%	10
	Arsenic (As)	7440-38-2	0.000002	0.00%	0
	Boron (B)	7440-42-8	0.000001	0.00%	0
	Phosphorous (P)	7723-14-0	0.000151	0.00%	4
	Titanium (Ti)	7440-32-6	0.000052	0.00%	1
	Tungsten (W)	7440-33-7	0.000004	0.00%	0
	Copper (Cu)	7440-50-8	0.000007	0.00%	0
	Aluminum (Al)	7429-90-5	0.002251	0.01%	53
	Cobalt (Co)	7440-48-4	0.000000	0.00%	0
Package					
Leadframe	Copper (Cu)	7440-50-8	18.465800	43.07%	430,712
	Iron (Fe)	7439-89-6	0.445100	1.04%	10,382
	Zinc (Zn)	7440-66-6	0.022700	0.05%	529
	Phosphorus (P)	7723-14-0	0.005700	0.01%	133
Die Attach	Silver (Ag)	7440-22-4	0.115400	0.27%	2,692
	Epoxy Resin	9003-36-5	0.028800	0.07%	672
	t-Butyl phenyl glycidyl ether	3101-60-8	0.012000	0.03%	280
	Phenolic hardener	92-88-6	0.002400	0.01%	56
	Butyl cellosolve acetate	112-07-2	0.001600	0.00%	37
Gold Wire	Gold (Au)	7440-57-5	0.283100	0.66%	6,603
100 Matte Tin Lead Finish	Tin (Sn)	7440-31-5	0.278300	0.65%	6,491
Mold Compound	Silica Fused	60676-86-0	20.042600	46.75%	467,490
	Epoxy Resin	Trade secret	0.874300	2.04%	20,393
	Phenol Resin	Trade secret	0.874300	2.04%	20,393
	Carbon Black	1333-86-4	0.065600	0.15%	1,530
Total Weight (mg)			42.872779	100.00%	1,000,000