

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE4304
Ordering Codes:	4304-51; 4304-52
Description:	Broadband Digital Step Attenuator (Monolithic) - 75 Ohms
Package:	20L 4X4 QFN
RoHS Compliant	Yes
Lead Finish	100% Matt Tin
Peak Reflow Temp	260 degree C
Time at Peak Temp	20 Sec
Max No. of Reflow	Three
Availability	Now

Component	Material	CAS Number	Weight (mg)	%	PPM
Die					
	Sapphire:	1344-28-1	2.377652	5.33%	53,284
	Silicon:	7440-21-3	0.000263	0.00%	6
	Silicon Dioxide:	7631-86-9	0.013084	0.03%	293
	Silicon Nitride:	12033-89-5	0.005707	0.01%	128
	Tungsten Silicide:	12039-88-2	0.000310	0.00%	7
	Titanium:	7440-33-6	0.000563	0.00%	13
	Titanium Nitride:	25583-20-4	0.001391	0.00%	31
	Aluminium Alloy (98.5%-Al, 1%-Si, 0.5%-Cu):	7429-90-5	0.011694	0.03%	262
	Arsenic:	7440-38-2	0.000001	0.00%	0
	Boron:	7440-42-8	0.000333	0.00%	7
	Phosphorous:	7723-14-0	0.000201	0.00%	5
Package					
Leadframe 421950	Cu:	7440-50-8	13.837525	31.01%	310,104
	Fe:	7439-89-6	0.333520	0.75%	7,474
	Zn:	7440-66-6	0.017031	0.04%	382
	P:	7723-14-0	0.004258	0.01%	95
	Ag (weight estimate):	7440-22-4	0.168000	0.38%	3,765
Die attach material	Silver (65 - 85):	7440-22-4	0.129812	0.29%	2,909
	Epoxy Resin (15 - 25):	9003-36-5	0.034617	0.08%	776
	t-Butyl phenyl glycidyl ether (5 - 10):	3101-60-8	0.012981	0.03%	291
	Phenolic hardener (1 - 2):	92-88-6	0.002596	0.01%	58
	Butyl cellosolve acetate (0.5 - 1.5):	112-07-2	0.001731	0.00%	39