

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE43502
Ordering Codes:	PE43502MLI-Z, PE43502MLI
Description:	50 RF Digital Attenuator, 5-bit, 15.5 Product Description dB, 9 kHz - 6 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	2.020037	4.51%	45,077
	Silicon (Si)	7440-21-3	0.000670	0.00%	15
	Arsenic (As)	7440-38-2	0.000003	0.00%	0
	Boron (B)	7440-42-8	0.000001	0.00%	0
	Phosphorous (P)	7723-14-0	0.000226	0.00%	5
	Titanium (Ti)	7440-32-6	0.000077	0.00%	2
	Tungsten (W)	7440-33-7	0.000006	0.00%	0
	Copper (Cu)	7440-50-8	0.000010	0.00%	0
	Aluminum (Al)	7429-90-5	0.003363	0.01%	75
	Cobalt (Co)	7440-48-4	0.000000	0.00%	0
Package					
Leadframe	Copper (Cu)	7440-50-8	12.458200	27.80%	278,001
	Iron (Fe)	7439-89-6	0.300300	0.67%	6,701
	Zinc (Zn)	7440-66-6	0.015300	0.03%	341
	Phosphorus (P)	7723-14-0	0.003800	0.01%	85
	Silver (Ag)	7440-22-4	0.397800	0.89%	8,877
Die Attach	Silver (Ag)	7440-22-4	0.159100	0.36%	3,550
	Epoxy Resin	9003-36-5	0.039800	0.09%	888
	t-Butyl phenyl glycidyl ether	3101-60-8	0.016600	0.04%	370
	Phenolic hardener	92-88-6	0.003300	0.01%	74
	Butyl cellosolve acetate	112-07-2	0.002200	0.00%	49
Gold Wire	Gold (Au)	7440-57-5	0.032000	0.07%	714
100 Matte Tin Lead Finish	Tin (Sn)	7440-31-5	0.661100	1.48%	14,752
Mold Compound	Silica Fused	60676-86-0	26.317500	58.73%	587,267
	Epoxy Resin	Trade secret	1.148000	2.56%	25,617
	Phenol Resin	Trade secret	1.148000	2.56%	25,617
	Carbon Black	1333-86-4	0.086100	0.19%	1,921
Total Weight (mg)			44.813494	100.00%	1,000,000