

PEREGRINE MATERIAL DECLARATION FORM

Product:	PE43502
Ordering Codes:	PE43502MLI, PE43502MLI-Z
Description:	RF Digital Step Attenuator - 50 Ohm
Package:	24L 4X4 QFN
RoHS Compliant	Yes
Lead Finish	100% Matte Tin
Availability	Now

Component	Material	CAS Number	Weight (mg)	%	PPM
Die					
	Sapphire:	1344-28-1	3.552046	7.79%	77,946
	Silicon	7440-21-3	0.003930	0.01%	86
	Silicon Dioxide	7631-86-9	0.019546	0.04%	429
	Silicon Nitride	12033-89-5	0.008526	0.02%	187
	Tungsten Silicide	12039-88-2	0.000464	0.00%	10
	Titanium	7440-33-6	0.000843	0.00%	18
	Titanium Nitride	25583-20-4	0.002085	0.00%	46
	Aluminium Alloy (98.5%-Al, 1%-Si, 0.5%-Cu)	7429-90-5	0.017489	0.04%	384
	Arsenic	7440-38-2	0.000002	0.00%	0
	Boron	7440-42-8	0.000497	0.00%	11
	Phosphorous	7723-14-0	0.000300	0.00%	7
Package					
Leadframe	Copper (Cu)	7440-50-8	12.458200	27.34%	273,383
	Iron (Fe)	7439-89-6	0.300300	0.66%	6,590
	Zinc (Zn)	7440-66-6	0.015300	0.03%	336
	Phosphorus (P)	7723-14-0	0.003800	0.01%	83
	Ag (weight estimate)	7440-22-4	0.397800	0.87%	8,729
Die Attach	Silver (65 - 85)	7440-22-4	0.165700	0.36%	3,636
	Epoxy Resin (15 - 25)	9003-36-5	0.044200	0.10%	970
	t-Butyl phenyl glycidyl ether (5-10)	3101-60-8	0.016600	0.04%	364
	Phenolic harder (1-2)	92-88-6	0.003300	0.01%	72
	Butyl cellosolve acetate (0.5-1.5)	112-07-2	0.002200	0.00%	48
Gold Wire	Au	7440-57-5	0.260500	0.57%	5,716
	Ag	7440-22-4	0.000045	0.00%	1
	Cu	7440-50-8	0.000045	0.00%	1
	Fe	7439-89-6	0.000090	0.00%	2
	Mg	7439-95-4	0.000045	0.00%	1
	Ca	7440-70-2	0.000045	0.00%	1
	Be	7440-41-7	0.000224	0.00%	5
100% Matte Tin Lead Finish	Sn	7440-31-5	0.658600	1.45%	14,452
Mold Compound	Silica Fused (75-95)	60676-86-0	27.608000	56.69%	566,809
	Epoxy Resin (1-5)	Trade secret	0.861000	1.89%	18,894
	Phenol Resin (1-5)	Trade secret	0.861000	1.89%	18,894
	Carbon Black (0.1-0.5)	1333-86-4	0.086100	0.19%	1,889
Total Weight (mg)			47.348822	100.00%	1,000,000