

# Material Declaration Report



Package Type:	TQFN 132L
Pericom Package Code:	ZP132(Pb-free)
RoHS Compliance:	Yes
Applicable Exemption:	N/A

Component Weight (mg):	242.600
Termination Plating:	NiPdAu
JESD 97 Pb-free Category:	e4
Plating Thickness (um):	0.5-2.2
Tin Whisker Mitigation:	N/A

MSL Rating:	1
Peak Body Temp (C):	260
Max Time (sec):	30
Reflow Cycles:	3
Rev Date:	7/21/2009

## Homogeneous Material Declaration

MATERIAL ITEM	MATERIAL WEIGHT(mg)	ASSEMBLY SUBCON	MATERIAL COMPOSITION	CAS NO.	COMPOSITION %	COMPOSITION WEIGHT(mg)
MOLD COMPOUND	141.700	ASEM	Silica Fused	60676-86-0	93.700	132.7729
			Epoxy Resin	Trade Secret	3.000	4.2510
			Phenol Resin	Trade Secret	3.000	4.2510
			Carbon black	1333-86-4	0.300	0.4251
LEADFRAME	87.000		Copper	7440-50-8	96.953	84.3492
			Iron	7439-89-6	2.350	2.0445
			Zinc	7440-66-6	0.111	0.0964
			Phosphorus	7723-14-0	0.065	0.0566
			Nickel	7440-02-0	0.473	0.4112
			Palladium	7440-05-3	0.041	0.0357
			Gold	7440-57-5	0.007	0.0064
SILICON DIE	10.100		Silicon (Si)	7440-21-3	99.192	10.0184
			Non-hazardous Metal	Proprietary	0.808	0.0816
DIE ATTACH EPOXY	1.500		Silver	7440-22-4	73.000	1.0950
			Acrylic resin	Trade Secret	8.500	0.1275
			Polybutadiene derivative	Trade Secret	5.500	0.0825
			Butadiene copolymer	Trade Secret	2.000	0.0300
			Epoxy resin	Trade Secret	2.500	0.0375
			Acrylate	Trade Secret	5.500	0.0825
			Peroxide	Trade Secret	1.000	0.0150
			Additive	Trade Secret	2.000	0.0300
GOLD WIRE	2.300		Gold(Au)	7440-57-5	99.990	2.2998
			Impurities	-	0.010	0.0002

NOTE: The device contents disclosed are approximated and are based on engineering estimates.

## 3rd Party Analysis Results (PPM)

MATERIAL	Pb	Hg	Cr+6	Cd	PBB	PBDE
Mold Compound	<2	<2	<2	<2	<5	<5
Leadframe	<50	<2	<2	<2	<5	<5
Device Silicon Die	<2	<2	<2	<2	<5	<5
Die Attach Epoxy	<2	<2	<2	<2	<5	<5
Gold Wire	<2	<2	<2	<2	<5	<5
Solder Plating	<2	<2	<2	<2	<5	<5

## ROHS MATERIAL COMPOSITION DECLARATION

EU RoHS Directive 2002/95/EC  and  China RoHS Directive SJ/T11363-2006	<b>Declaration Statement:</b>	Quantity limit of 0.1% (1000 PPM) by mass in homogeneous material for: Lead (Pb), Mercury, Hexavalent Chromium(Cr+6), Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE); and Quantity limit of 0.01% (100 PPM) for Cadmium					
		Pb	Hg	Cr+6	Cd	PBB	PBDE
	<1000ppm	<1000ppm	<1000ppm	<100ppm	<1000ppm	<1000ppm	
	O	O	O	O	O	O	
<p>O: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the limit requirement in SJ/T11363-2006.</p> <p>X: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the limit requirement in SJ/T11363-2006.</p>							