

Material Declaration Report

Package Type:	TQFN 20L
Pericom Package Code:	ZD20(Pb-free)
RoHS Compliance:	Yes
Applicable Exemption:	N/A

Component Weight (mg):	38.0000
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:	2012/1/18

Homogeneous Material Declaration

MATERIAL ITEM	MATERIAL WEIGHT(mg)	ASSEMBLY SUBCON	MATERIAL COMPOSITION	CAS NO.	COMPOSITION %	COMPOSITION WEIGHT(mg)
MOLD COMPOUND	25.08700	GTK	Epoxy Resin	Trade secret	8.000	2.00696
			Phenol Resin	Trade secret	6.000	1.50522
			Carbon Black	1333-86-4	0.500	0.12544
			Silica fused	60676-86-0	75.000	18.81525
			Silica fused	7631-86-9	10.000	2.50870
			Silica crystalline	14808-60-7	0.500	0.12544
LEADFRAME	11.15600		Copper	7440-50-8	95.740	10.68075
			Iron	7439-89-6	2.310	0.25770
			Zinc	7440-66-6	0.120	0.01339
			Phosphorus	7723-14-0	0.080	0.00892
			Nickel(Ni)	7440-02-0	1.580	0.17626
			palladium(Pd)	7440-05-3	0.150	0.01673
			Gold(Au)	7440-57-5	0.020	0.00223
SILICON DIE	0.87500		Silicon (Si)	7440-21-3	99.192	0.86793
			Non-hazardous Metal	Proprietary	0.808	0.00707
DIE ATTACH EPOXY	0.25000		Silver	7440-22-4	72.000	0.18000
			Epoxy resin A	9003-36-5	5.000	0.01250
			Epoxy resin B	Trade secret	6.000	0.01500
			Diluent A	Trade secret	6.000	0.01500
			Diluent B	Trade secret	5.000	0.01250
			Hardener	Trade secret	5.000	0.01250
			Dicyandiamide	461-58-5	0.300	0.00075
			Organic peroxide	Trade secret	0.700	0.00175
WIRE BOND	0.63200		Copper	7440-50-8	97.300	0.61494
			Palladium	7440-5-3	2.700	0.01706

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	Declaration Statement:	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	

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.
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.