

Material Declaration Report

Package Type:	QSOP 28L
Pericom Package Code:	Q28(Pb-free)
RoHS Compliance:	Yes
Applicable Exemption:	N/A

Component Weight (mg):	150.000
Termination Plating:	Matte Tin
JESD 97 Pb-free Category:	e3
Plating Thickness (um):	10-20
Tin Whisker Mitigation:	Anneal, 150C/1hr

MSL Rating:	1
Peak Body Temp (C):	260
Max Time (sec):	40
Reflow Cycles:	3
Rev Date:	6/4/2008

Homogeneous Material Declaration

MATERIAL ITEM	MATERIAL WEIGHT(mg)	ASSEMBLY SUBCON	MATERIAL COMPOSITION	CAS NO.	COMPOSITION %	COMPOSITION WEIGHT(mg)
MOLD COMPOUND	99.858	UTL	Silica Fused	60676-86-0	88.000	87.8750
			Epoxy Resin	Proprietary	5.000	4.9929
			Epoxy, Cresol Novolac	29690-82-2	2.000	1.9972
			Phenolic Resin	Proprietary	4.500	4.4936
			Carbon Black	1333-86-4	0.500	0.4993
LEADFRAME	42.396		Copper	7440-50-8	97.021	41.1329
			Iron	7439-89-6	2.350	0.9963
			Silver	7440-22-4	0.453	0.1922
			Zinc	7440-66-6	0.111	0.0470
			Phosphorus	7723-14-0	0.065	0.0276
SILICON DIE	3.335		Silicon (Si)	7440-21-3	99.192	3.3076
			Non-hazardous Metal	Proprietary	0.808	0.0269
DIE ATTACH EPOXY	1.038		Silver	7440-22-4	80.000	0.8304
			Functionalized Urethane	72869-86-4	8.000	0.0830
			Diester Resin	94-80-4	7.000	0.0727
			Epoxy Resin	Proprietary	5.000	0.0519
			Tin (Sn)	7440-31-5	85.000	2.2211
GOLD WIRE	0.761		Gold(Au)	7440-57-5	99.990	0.7604
			Impurities	-	0.010	0.0001
SOLDER PLATING	2.613		Tin (Sn)	7440-31-5	99.990	2.6127
			Impurity	-	0.010	0.0003

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	<50	<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.