

Material Declaration Report



Package Type:	SOT23-5
Pericom Package Code:	TA05(Pb-free)
RoHS Compliance:	Yes
Applicable Exemption:	N/A

Component Weight (mg):	14.6090
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):	30
Reflow Cycles:	3
Rev Date:	Mar.05.2009

Homogeneous Material Declaration

MATERIAL ITEM	MATERIAL WEIGHT(mg)	ASSEMBLY SUBCON	MATERIAL COMPOSITION	CAS NO.	COMPOSITION %	COMPOSITION WEIGHT(mg)
MOLD COMPOUND	8.3200	J	Solid Epoxy Resin	Trade Secret	5.00	0.4160
			Phenol Resin	Trade Secret	5.00	0.4160
			Fused Silica	60676-86-0	76.50	6.3648
			Metal Hydro Oxide	Trade Secret	10.00	0.8320
			Carbon Black	1333-86-4	0.50	0.0416
			Crystalline Silica	14808-60-7	3.00	0.2496
LEADFRAME	5.0500		Cu	7440-50-8	97.66	4.9318
			Fe	7439-89-6	2.30	0.1162
			P	7723-14-0	0.01	0.0005
			Zn	7440-66-6	0.01	0.0005
			Pb	7439-92-1	0.02	0.0010
			Silver	7440-22-4	--	--
SOLDER PLATING	0.6700		Tin	7440-31-5	99.90	0.6693
			Impurities	Proprietary	0.10	0.0007
SILICON DIE	0.3500		Silicon	7440-21-3	99.763	0.34917
			Aluminum(Al)	7429-90-5	0.200	0.00070
			Copper(Cu)	7440-50-8	0.001	0.00000
			Titanium(Ti)	7440-32-6	0.028	0.00010
			Phosphorus(P)	7664-38-2	0.003	0.00001
			Boron(B)	7440-42-8	0.005	0.00002
DIE ATTACH EPOXY	0.0390		Silica, crystalline	14808-60-7	40.00	0.0156
			Epoxy resin1	Secret	27.00	0.0105
			Epoxy resin2	Secret	15.00	0.0059
			Epoxy resin modifier	Secret	15.00	0.0059
			Amine	Secret	3.00	0.0012
GOLD WIRE	0.1800		Aurum	7440-57-5	99.99	0.1800
			Impurities	Proprietary	0.01	0.0000

Remark : Surface Plating

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																	
		<table border="1"> <thead> <tr> <th>Pb</th> <th>Hg</th> <th>Cr+6</th> <th>Cd</th> <th>PBB</th> <th>PBDE</th> </tr> </thead> <tbody> <tr> <td><1000ppm</td> <td><1000ppm</td> <td><1000ppm</td> <td><100ppm</td> <td><1000ppm</td> <td><1000ppm</td> </tr> <tr> <td>O</td> <td>O</td> <td>O</td> <td>O</td> <td>O</td> <td>O</td> </tr> </tbody> </table>	Pb	Hg	Cr+6	Cd	PBB	PBDE	<1000ppm	<1000ppm	<1000ppm	<100ppm	<1000ppm	<1000ppm	O	O	O	O	O
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. 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>																			