

Material Declaration Report



Package Type:	NB03
Pericom Package Code:	TO92-3(Pb-free)
RoHS Compliance:	Yes
Applicable Exemption:	N/A

Component Weight (mg):	205.012
Termination Plating:	Matte Tin
JESD 97 Pb-free Category:	e3
Plating Thickness (um):	10~20
Tin Whisker Mitigation:	Anneal, 150C/1hr

MSL Rating:	N/A
Peak Body Temp (C):	260
Max Time (sec):	30
Reflow Cycles:	3
Rev Date:	Feb.05.2009

Homogeneous Material Declaration

MATERIAL ITEM	MATERIAL WEIGHT(mg)	ASSEMBLY SUBCON	MATERIAL COMPOSITION	CAS NO.	COMPOSITION %	COMPOSITION WEIGHT(mg)
MOLD COMPOUND	108.962	J	Silica Fused	60676-86-0	66.50	72.45973
			Epoxy,Cresol Novolac	29690-82-2	20.00	21.79240
			Phenol Novolac	9003-35-4	7.50	8.17215
			Antimony Trioxide	1309-64-4	6.00	6.53772
LEAD FRAME	93.892		Iron	7439-89-6	0.10	0.09389
			Phosphorus	7723-14-0	0.30	0.28168
			Copper	7440-50-8	98.78	92.74652
			Silver	7740-22-4	0.82	0.76991
TERMINATION PLATING	1.3420		Tin	7440-31-5	99.90	1.34066
			Impurity	Proprietary	0.10	0.00134
SILICON DIE	0.350		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	0.400		Silicon Dioxide	14464-46-1	46.25	0.18500
			Epoxy resin	29690-82-2	46.25	0.18500
			Curing Agent and Hardener	Proprietary	7.50	0.03000
GOLD WIRE	0.066		Au	7440-57-5	99.99	0.06599
			Other materials	Proprietary	0.01	0.00001

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.