MATERIAL DECLARATION DATA SHEET

Device Name	Package Type	Pkg Wt (g)
A3P125	FGG144	0.5420

Material Breakdown of Component	Material Breakdown (%)	Substance Name	CAS No.	Weight (g)	Substance Mass (%)
MOLD COMPOUND	42.97	Silica (Fused)	60676-86-0	0.2089	89.7
		Epoxy resin	Undisclosed	0.0128	5.5
		Phenol Resin	Undisclosed	0.0105	4.5
		Carbon Black	1333-86-4	0.0000	0.3
				0.23291	100
SUBSTRATE	32.01	Talc containing no asbestiform fibers	14807-96-6	0.0013	0.778
		Morpholine derivative	Trade secret	0.0013	0.778
		Barium Sulfate	7727-43-7	0.0078	4.512
		Silica,amorphous	7631-86-9	0.0003	0.156
		Dipropylene glycol monomethyl ether	34590-94-8	0.0027	1.556
		BIS(3-ETHYL-5-METHYL-4-MALEIMIDOPHENYL)METHANE	105391-33-1	0.0167	9.65
		Inorganic Filler	Trade secret	0.0100	5.79
		Continuous Filament Fiber Glass	65997-17-3	0.0167	9.65
		Copper(HL832NX-A)	7440-50-8	0.0234	13.51
		Cu	7440-50-8	0.0853	49.18
		Ni	7440-02-0	0.0068	3.93
		Au	7440-57-5	0.0009	0.51
				0.1735	100
DIE	1.40	Silicon (Si)	7440-21-3	0.0076	99.99
		trade secret	PROPRIETARY	0.0000	0.01
				0.0076	100
DIE ATTACH EPOXY	0.04	SILVER	7440-22-4	0.0002	76.5
		Epoxy resin A	9003-36-5	0.0133	11
		Epoxy resin B	Trade secret	0.0002	6
		t-Butylphenyl glycidyl ether	3101-60-8	0.0000	5
		Phenolic Hardener	Trade secret	0.0012	1
		Dicyandiamide	461-58-5	0.0000	0.5
				0.0002	100
SOLDER BALL	23.05	Tin	7440-31-5	0.1206	96.5
		Silver	7440-22-4	0.0037	3
		Copper	7440-50-8	0.0006	0.5
				0.1249	100
PCC wire	0.52	Cu	7440-50-8	0.0028	98.25
		Pd	7440-05-3	0.0000	1.75
				0.0028	100
				0.5420	

Note: Microsemi believes this information to be correct, but cannot guarantee its completeness or accuracy as it is based on data received from sources outside our company.

Revision No.	Date	Description of Change
0	5/10/2013	Initial release
1	12/5/2013	Correct typo in substance Name of Solder ball (remove "lead" and instead of it with "Copper")
2	12/18/2014	Change "CAS No." for "Inorganic Filler" in substrate from "21654-51-2" to "Trade secret"
3	7/15/2016	Correct "CAS No." for "Silver" in solder ball to "2440-22-4"