



Backend Assembly : Site A  
Date Updated: 2-Aug-11

### MATERIALS DECLARATION

Supplied part / Package	Breakdown of Component			Substance Composition				ICP Test	
	Name of Component	Supplier's Name	Feature of Component	Substance	Chemical formula	CAS' No	Content ratio (wt/%)	Restricted Substances	Content (wt) (Test analysis)
TO-247 SDP20S120	SILICON CARBIDE CHIP (Test Report# : 2321279-CH01 by SGS dtd: 2/21/11)	Semisouth	Silicon Carbide	Silicon Carbide	SiC	409-21-2		Lead ( Pb)	ND
								Chromium ( Cr)	ND
								Mercury ( Hg)	ND
								Cadmium ( Cd)	ND
								PBB	ND
								PBDE	ND
	LEAD FRAME (Test report#: LPCI/21795(A) /09 by SGS dts 1/13/10)	Poongsan	PMC90	Copper	Cu	7440-50-8	99.00	Lead ( Pb)	ND
				Iron	Fe	7439-89-6	0.10	Chromium ( Cr)	ND
				Phosphorus	P	7723-14-0	0.03	Mercury ( Hg)	ND
				Nickel	Ni	7440-02-0	0.80	Cadmium ( Cd)	ND
								PBB	ND
	SOLDER WIRE (Test report#: 10190434(2) by SGS dtd 3/26/10)	Heraeus	Pbfree	Silver	Ag	7440-22-4	10.00	Lead ( Pb)	ND
				Tin	Sn	7440-31-5	65.00	Chromium ( Cr)	Negative
				Antimony	Sb	7440-36-0	25.00	Mercury ( Hg)	ND
								Cadmium ( Cd)	ND
								PBBE	ND
								PBDE	ND
	WIRE (Test Report#: KA/2010/80969 By SGS dtd: 08/31/10)	Heraeus	Al Wire	Aluminum	Al	7729-90-5	100.00	Lead ( Pb)	ND
								Chromium ( Cr)	Negative
								Mercury ( Hg)	ND
								Cadmium ( Cd)	ND
								PBB	ND
	PBDE	ND							
	MOLDING COMPOUND (Test report#: F690501/LF-CTSAYAA10-06825 by SGS dtd 3/5/10)	KCC	Silica	Silicone Dioxide (fused Silica)		60676-86-0	75-84	Lead ( Pb)	ND
				Phenol Novolac Resin		9003-35-4	1-10	Chromium ( Cr)	ND
				Carbon Black		1333-86-4	0.1-1.0	Mercury ( Hg)	ND
				Ortho cresol Novolac epoxy resin		29690-82-2	1-10		
				Diglycidylether of tetramethyl biphenol		85954-11-6	1-10	Cadmium ( Cd)	ND
					PBBE	ND			
					PBDE	ND			
	Solder Plate(Test report#: LPCI/00105/10 by SGS dtd 11/1/10)	RedRing	Sn	Tin	Sn	7440-31-5	100.0%	Lead ( Pb)	10.0
				Lead	Pb	7439-92-1	0.01	Chromium ( Cr)	Negative
				Bismuth	Bi	7440-69-9	0.00	Mercury ( Hg)	ND
Cadmium				Cd	7440-43-9	0.00	Cadmium ( Cd)	ND	
Copper				Cu	7440-50-8	0.00	PBBE	ND	
Antimony				Sb	7440-36-0	0.00	PBDE	ND	
<b>Total Weight</b>									

Legend : ND-Not Detected