

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 (w/w%)	Restricted Substances	Content (wt) (Test analysis)
TO-247 (JFET) SJEP120R100A SJEP120R063A SJEP120R100 SJEP120R063 SJDP120R085 SJDP120R045	SILICON CARBIDE CHIP (Test report#: 2321279CH01 by SGS 2/21/11)	Semisouth	SiC	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#: 10220842(2)) by SGS dtd 1/6/11)	Kobelco	Copper	Copper	Cu	7440-50-8	99.05	Lead (Pb)	ND
				Iron	Fe	7439-89-6	0.11	Chromium (Cr)	ND
				Phosphorus	P	7723-14-0	0.04	Mercury (Hg)	ND
				Nickel	Ni	7440-02-0	0.80	Cadmium (Cd)	ND
								PBB	ND
								PBDE	ND
	SOLDER PREFORM (Honeywell)	Honeywell	Pb	Lead	Pb	7439-92-1	92.50	Lead (Pb)	99.99%
				Tin	Sn	7440-31-5	5.00	Chromium (Cr)	0.5 ppm
				Silver	Ag	7440-22-4	2.50	Mercury (Hg)	5.0 ppm
								Cadmium (Cd)	0.7 ppm
								PBBE	ND
								PBDE	ND
	WIRE (Test report#: KA/2010/80969 by SGS dtd 8/31/11)	Heraeus	Al Wire	Alumium	Al	7729-90-5	100.00	Lead (Pb)	ND
								Chromium (Cr)	ND
								Mercury (Hg)	ND
								Cadmium (Cd)	ND
								PBB	ND
								PBDE	ND
MOLDING COMPOUND (Test report#: CANEC1004671401 by SGS dtd 11/15/10)	Hysol	Silica	Silica Fused SiS2 (60-100 % Fused Silica by weight)	Silica	60676-86-0	(60-100 % Fused Silica by weight)	Lead (Pb)	ND	
			Epoxy Resin (5-10 % by weight)		29690-82-2	(5-10 % by weight)	Chromium (Cr)	ND	
			Phenol Resin (5-10% by weight)		9003-6-4	(5-10% by weight)	Mercury (Hg)	ND	
			Antimony Trioxide Sb4O6 (1.300 by weight)	Sb4O6	1309-64-4	(1.300 by weight)	Cadmium (Cd)	ND	
							PBBE	ND	
							PBDE	ND	
Solder Dip (Test report#: Z118031177 by TUV dtd 3/28/11)	AIM	Sn	Tin	Sn	7440-31-5	96.50	Lead (Pb)	284 mg/kg	
			Silver	Ag	7440-22-4	3.00	Chromium (Cr)	ND	
			Copper	Cu	7440-50-8	0.50	Mercury (Hg)	ND	
							Cadmium (Cd)	ND	
							PBBE	ND	
							PBDE	ND	

Legend : **ND-Not Detected**