

Adesto Technologies - Package Material Declaration Data Sheet			
Package Code	8S2	GPC	STN
Package Description	8-Lead, 0.208" Wide Body, Plastic Small Outline Package (EIAJ SOIC)		
Lead Finish	Nickel-Palladium-Gold (NiPdAu)	J-STD-609 Category	e4
RoHS Compliant	Yes	Green Compliant	Yes
MSL Rating	1	Max Reflow Temperature	+260c
Assembly Location	External Manufacturing		

Package Material Declaration						
Material	Substance	CAS #	Weight (mg)	Package		
				Percentage	ppm	
Leadframe	Copper (Cu)	7440-50-8	24.169	19.5	195410	
	Iron (Fe)	7439-89-6	0.596	0.5	4815	
	Phosphorous (P)	7723-14-0	0.025	0.0	201	
	Zinc (Zn)	7440-66-6	0.025	0.0	201	
Integrated Circuit	Silicon (Si)	7440-21-3	3.143	2.5	25411	
Die Attach	silver (Ag)	7440-22-4	0.181	0.1	1462	
	2-(Chloromethyl)oxirane, Formaldehyde, Phenol	9003-36-5	0.007	0.0	60	
	2,6-Diglycidyl Phenyl Allyl Ether Oligomer	Proprietary	0.007	0.0	60	
	Epoxy Resin	68475-94-5	0.007	0.0	60	
	gamma-Butyrolactone	96-48-0	0.007	0.0	60	
	Copper (II) Oxide	1317-38-0	0.007	0.0	60	
	Organosilane	Proprietary	0.007	0.0	60	
	Poly(oxypropylene)diamine	9046-10-0	0.007	0.0	60	
Die Pad Plating	silver (Ag)	7440-22-4	0.350	0.3	2830	
Bond Wire	Gold (Au)	7440-57-5	0.055	0.0	444	
Encapsulation	Silica Fused	60676-86-0	81.953	66.3	662604	
	Epoxy Resin	Proprietary	5.211	4.2	42131	
	Phenol Resin	Proprietary	5.211	4.2	42131	
	Epoxy, Cresol Novolac	29690-82-2	2.084	1.7	16852	
	Carbon Black	1333-86-4	0.284	0.2	2298	
Terminal Plating	Nickel (Ni)	7440-02-0	0.320	0.3	2587	
	Palladium (Pd)	7440-05-3	0.022	0.0	181	
	Gold (Au)	7440-57-5	0.003	0.0	22	
Total			123.681	100.00	1000000	

Adesto Technologies certifies that the material content information provided above is representative and accurate as of the date of this declaration. Adesto Technologies products designated as "RoHS Compliant" or "Green" (defined below) do not exceed the threshold limits of the European Union Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU, and the China Administration on Control of Pollution by Electronic Information Products (China RoHS).

Adesto Technologies has taken commercially reasonable steps to provide representative and accurate information, but may not have conducted chemical analysis or destructive testing on incoming materials. Adesto Technologies and its suppliers consider certain information to be proprietary and thus CAS numbers and other limited information may not be available for release. Adesto Technologies accepts no duty to notify or update users of any changes made to this declaration. Adesto Technologies standard Terms and Conditions apply to the representations provided herein unless otherwise provided by a written contract or other agreement signed by both parties.

Restriction on Use of Hazardous Substances ("RoHS")	
RoHS Restricted Substances	Threshold, Homogeneous Level
Cadmium (Cd)	< 100 ppm
Hexavalent Chromium (CrVI)	< 1000 ppm
Lead (Pb)	< 1000 ppm
Mercury (Hg)	< 1000 ppm
Polybrominated Biphenyls (PBBs)	< 1000 ppm
Polybrominated Diphenyl Ethers (PBDEs)	< 1000 ppm
Halogen Free Specifications (IEC 61249-2-21, JPCA-ES01 2003, IPC 4101)	
Halogen Restricted Substances	Threshold, Homogeneous Level
Chlorine (Cl)	< 900 ppm
Bromine (Br)	< 900 ppm
Total concentration of Bromine (Br) + Chlorine (Cl)	< 1500 ppm