

# Product Document

# Material Declaration Form

Page 1

ams AG  
Tobelbader Strasse 30  
A-8141 Premstaetten, Austria  
Tel +43 (0) 3136 500-0



Ordering Code	Package Family	Assembly Material Number	Lead Count	Weight (mg)	Manufacturing Country	Halogen Free	EU RoHS	China RoHS	Release Status	Version
CMV50000-1E3C1PA	PGA	302860003	141	19,550	Japan	YES	YES	YES	FULL	1

Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
IC	2,270	Si	Silicon	100.00	7440-21-3	2270.00000	11.61125	116113
<b>Subtotal:</b>				<b>100.00</b>		<b>2270.00000</b>	<b>11.61125</b>	<b>116113</b>
Adhesive	50	SiO2	Silica	49.50	7631-86-9	24.75000	0.12660	1266
			Carbon Black	0.50	1333-86-4	0.25000	0.00128	13
			Epoxy Resin	50.00	25068-38-6	25.00000	0.12788	1279
<b>Subtotal:</b>				<b>100.00</b>		<b>50.00000</b>	<b>0.25575</b>	<b>2558</b>
Wire	9	Au	Gold	100.00	7440-57-5	9.00000	0.04604	460
<b>Subtotal:</b>				<b>100.00</b>		<b>9.00000</b>	<b>0.04604</b>	<b>460</b>
Ceramic Package	14,250	Ag	Silver	0.60	7440-22-4	85.50000	0.43734	4373
		Al2O3	Aluminum Oxide	78.50	1344-28-1	11186.25000	57.21867	572187
		Au	Gold	0.20	7440-57-5	28.50000	0.14578	1458
		Co	Cobalt	0.10	7440-48-4	14.25000	0.07289	729
		Cr2O3	Chromium Oxide	1.30	1308-38-9	185.25000	0.94757	9476
		Cu	Copper	0.10	7440-50-8	14.25000	0.07289	729
		Fe	Iron	3.90	7439-89-6	555.75000	2.84271	28427
		Mo	Molybdenum	0.30	7439-98-7	42.75000	0.21867	2187
		Ni	Nickel	3.10	7440-02-0	441.75000	2.25959	22596
		SiO2	Silicon Dioxide	6.60	7631-86-9	940.50000	4.81074	48107
W	Tungsten	5.30	7440-33-7	755.25000	3.86317	38632		
<b>Subtotal:</b>				<b>100.00</b>		<b>14250.00000</b>	<b>72.89003</b>	<b>728900</b>

The information provided in this statement represents ams AG knowledge and belief as of the date that it is provided. ams AG bases its knowledge and belief on information provided by third parties, and makes no representation or warranty as to the accuracy and shall have no liability for the consequences of use of such information. ams AG has taken and continues to take reasonable steps to provide representative and accurate information but may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. ams AG and its suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.

**Material Declaration Form**



Homogenous Material	Weight (mg)	Symbol	Chemical Substance	Input Ratio (%)	CAS Number	Unit Weight (mg)	Unit Weight (%)	Amount (ppm)
Glass	2,950		Inorganic Glass	100.00	65997-17-3	2950.00000	15.08951	150895
			<b>Subtotal:</b>	<b>100.00</b>		<b>2950.00000</b>	<b>15.08951</b>	<b>150895</b>
Adhesive (Glass)	21	SiO2	Silica	8.00	7631-86-9	1.68000	0.00859	86
			Bisphenol F Copolymer	92.00	9003-36-5	19.32000	0.09882	988
			<b>Subtotal:</b>	<b>100.00</b>		<b>21.00000</b>	<b>0.10742</b>	<b>1074</b>
<b>Total:</b>	<b>19,550</b>					<b>19,550.00</b>	<b>100.00000</b>	<b>1000000</b>

The information provided in this statement represents ams AG knowledge and belief as of the date that it is provided. ams AG bases its knowledge and belief on information provided by third parties, and makes no representation or warranty as to the accuracy and shall have no liability for the consequences of use of such information. ams AG has taken and continues to take reasonable steps to provide representative and accurate information but may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. ams AG and its suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.