



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	BGM 13HBA9 E6327	<b>Issued</b>	12. August 2021
<b>MA#</b>	MA001510844		
<b>Package</b>	PG-ATSLP-9-1	<b>Weight*</b>	1.13 mg

Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip	inorganic material	silicon	7440-21-3	0.149	13.18	13.18	131795	131795
bumps	non noble metal	copper	7440-50-8	0.010	0.90	0.90	9035	9035
encapsulation	organic material	carbon black	1333-86-4	0.003	0.23		2312	
	inorganic material	zink oxide	1314-13-2	0.005	0.46		4624	
	miscellaneous	miscellaneous	-	0.008	0.69		6937	
	plastics	epoxy resin	-	0.058	5.09		50865	
	inorganic material	silicondioxide	60676-86-0	0.450	39.77	46.24	397675	462413
leadfinish	noble metal	gold	7440-57-5	0.022	1.97		19653	
	non noble metal	nickel	7440-02-0	0.025	2.24	4.21	22414	42067
solder	noble metal	silver	7440-22-4	0.000	0.01		59	
	non noble metal	tin	7440-31-5	0.004	0.32	0.33	3218	3277
ubm	non noble metal	tungsten	7440-33-7	0.000			26	
	non noble metal	titanium	7440-32-6	0.000			49	
	non noble metal	copper	7440-50-8	0.000	0.01	0.01	137	212
solder resists	inorganic material	silicondioxide	60676-86-0	0.010	0.85		8469	
	inorganic material	bariumsulfate	7727-43-7	0.010	0.86		8569	
	plastics	acrylic resin	-	0.026	2.28	3.99	22818	39856
substrate metal	non noble metal	copper	7440-50-8	0.174	15.40	15.40	154003	154003
substrate plastic	organic material	carbon black	1333-86-4	0.001	0.05		472	
	plastics	epoxy resin	-	0.021	1.84		18409	
	inorganic material	silicondioxide	60676-86-0	0.157	13.85	15.74	138461	157342
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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Company	Infineon Technologies AG
Address	81726 Neubiberg
Internet	www.infineon.com