



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	BGM 15LA12 E6327	<b>Issued</b>	09. September 2021
<b>MA#</b>	MA005434925		
<b>Package</b>	PG-ATSLP-12-1	<b>Weight*</b>	3.67 mg

Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]
chip_1	inorganic material	silicon	7440-21-3	0.093	2.54	2.54	25387	25387
chip_2	inorganic material	silicon	7440-21-3	0.218	5.94	5.94	59407	59407
bumps	non noble metal	copper	7440-50-8	0.022	0.59	0.59	5882	5882
encapsulation	organic material	carbon black	1333-86-4	0.012	0.34		3359	
	inorganic material	zink oxide	1314-13-2	0.025	0.67		6718	
	miscellaneous	miscellaneous	-	0.037	1.01		10077	
	plastics	epoxy resin	-	0.271	7.39		73896	
	inorganic material	silicondioxide	60676-86-0	2.118	57.76	67.17	577734	671784
leadfinish	noble metal	gold	7440-57-5	0.024	0.66		6629	
	non noble metal	nickel	7440-02-0	0.028	0.76	1.42	7561	14190
solder	noble metal	silver	7440-22-4	0.000	0.01		74	
	non noble metal	tin	7440-31-5	0.012	0.32	0.33	3161	3235
ubm	non noble metal	tungsten	7440-33-7	0.000			16	
	non noble metal	titanium	7440-32-6	0.000			32	
	non noble metal	copper	7440-50-8	0.000	0.01	0.01	89	137
solder resists	inorganic material	silicondioxide	60676-86-0	0.012	0.34		3371	
	inorganic material	bariumsulfate	7727-43-7	0.013	0.34		3411	
	plastics	acrylic resin	-	0.033	0.91	1.59	9083	15865
substrate metal	non noble metal	copper	7440-50-8	0.444	12.12	12.12	121199	121199
substrate plastic	organic material	carbon black	1333-86-4	0.001	0.02		249	
	plastics	epoxy resin	-	0.036	0.97		9701	
	inorganic material	silicondioxide	60676-86-0	0.267	7.30	8.29	72964	82914
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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