



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	BGSA 142M2N12 E6327	<b>Issued</b>	02. June 2021
<b>MA#</b>	MA002805502		
<b>Package</b>	PG-TSNP-12-1	<b>Weight*</b>	2.35 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	0.502	21.34	21.34	213412	213412
bumps	non noble metal	copper	7440-50-8	0.014	0.58	0.58	5789	5789
leadframe	non noble metal	zinc	7440-66-6	0.001	0.06		566	
	non noble metal	tin	7440-31-5	0.002	0.07		707	
	non noble metal	chromium	7440-47-3	0.002	0.08		849	
	non noble metal	copper	7440-50-8	0.661	28.08	28.29	280793	282915
encapsulation	organic material	carbon black	1333-86-4	0.005	0.23		2327	
	inorganic material	zink oxide	1314-13-2	0.011	0.47		4655	
	miscellaneous	miscellaneous	-	0.016	0.70		6982	
	plastics	epoxy resin	-	0.120	5.12		51203	
	inorganic material	silicondioxide	60676-86-0	0.942	40.03	46.55	400316	465483
leadfinish	non noble metal	tin	7440-31-5	0.041	1.76	1.76	17629	17629
plating	noble metal	silver	7440-22-4	0.027	1.16	1.16	11582	11582
solder	noble metal	silver	7440-22-4	0.000	0.01		57	
	non noble metal	tin	7440-31-5	0.007	0.31	0.32	3093	3150
ubm	non noble metal	tungsten	7440-33-7	0.000			5	
	non noble metal	titanium	7440-32-6	0.000			9	
	non noble metal	copper	7440-50-8	0.000			26	40
*deviation	< 10%	Sum in total:				100.00		1000000

### Important Remarks:

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This product is in compliance with EU Directive 2015/863/EU amending Annex II to EU Directive 2011/65/EU (RoHS) and does not use any exemption.

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