



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	BGSA 12GN10 E6327	<b>Issued</b>	05. May 2021
<b>MA#</b>	MA001243286		
<b>Package</b>	PG-TSNP-10-1	<b>Weight*</b>	1.89 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	0.352	18.62	18.62	186241	186241
bumps	non noble metal	copper	7440-50-8	0.005	0.27	0.27	2667	2667
leadframe	non noble metal	zinc	7440-66-6	0.001	0.07		713	
	non noble metal	tin	7440-31-5	0.002	0.09		891	
	non noble metal	chromium	7440-47-3	0.002	0.11		1069	
	non noble metal	copper	7440-50-8	0.669	35.37	35.64	353701	356374
encapsulation	organic material	carbon black	1333-86-4	0.004	0.21		2144	
	inorganic material	zinc oxide	1314-13-2	0.008	0.43		4289	
	miscellaneous	miscellaneous	-	0.012	0.64		6434	
	plastics	epoxy resin	-	0.089	4.72		47181	
	inorganic material	silicon dioxide	60676-86-0	0.698	36.90	42.90	368867	428915
leadfinish	non noble metal	tin	7440-31-5	0.029	1.52	1.52	15230	15230
plating	noble metal	silver	7440-22-4	0.017	0.91	0.91	9070	9070
solder	noble metal	silver	7440-22-4	0.000			34	
	non noble metal	tin	7440-31-5	0.003	0.14	0.14	1434	1468
ubm	non noble metal	tungsten	7440-33-7	0.000			4	
	non noble metal	titanium	7440-32-6	0.000			8	
	non noble metal	copper	7440-50-8	0.000			23	35
*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.

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