



Material Content Data Sheet



Halogen-Free

Sales Product Name	BGS 14WMA9 E6327	Issued	12. August 2021
MA#	MA005583500		
Package	PG-ATSLP-9-50	Weight*	1.68 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	0.165	9.87	9.87	98711	98711
bumps	noble metal	silver	7440-22-4	0.000	0.01		62	
	non noble metal	nickel	7440-02-0	0.001	0.06		619	
	non noble metal	tin	7440-31-5	0.005	0.31		3092	
	non noble metal	copper	7440-50-8	0.014	0.86	1.24	8596	12369
leadframe	inorganic material	silicon	7440-21-3	0.000	0.01		55	
	non noble metal	titanium	7440-32-6	0.000	0.03		274	
	non noble metal	chromium	7440-47-3	0.001	0.08		822	
	non noble metal	copper	7440-50-8	0.457	27.27	27.39	272662	273813
encapsulation	organic material	carbon black	1333-86-4	0.002	0.09		931	
	plastics	epoxy resin	-	0.092	5.49		54946	
	inorganic material	silicondioxide	60676-86-0	0.687	40.98	46.56	409769	465646
leadfinish	noble metal	palladium	7440-05-3	0.000			42	
	noble metal	gold	7440-57-5	0.000	0.01		68	
	non noble metal	nickel	7440-02-0	0.002	0.12	0.13	1239	1349
substrate	organic material	carbon black	1333-86-4	0.000	0.02		208	
	plastics	epoxy resin	-	0.030	1.79		17858	
	inorganic material	silicondioxide	60676-86-0	0.203	12.09	13.90	120903	138969
plating	noble metal	palladium	7440-05-3	0.000	0.01		143	
	noble metal	gold	7440-57-5	0.000	0.02		230	
	non noble metal	nickel	7440-02-0	0.007	0.42	0.45	4198	4571
solder	noble metal	silver	7440-22-4	0.000	0.01		103	
	non noble metal	tin	7440-31-5	0.007	0.44	0.45	4367	4470
ubm	non noble metal	titanium	7440-32-6	0.000			11	
	non noble metal	copper	7440-50-8	0.000	0.01	0.01	91	102
*deviation	< 10%	Sum in total:				100.00		1000000

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