



## Material Content Data Sheet



<b>Sales Product Name</b>		BGA 123L4 E6327		<b>Issued</b>		20. July 2018		
<b>MA#</b>		MA001680298						
<b>Package</b>		PG-TSLP-4-11		<b>Weight*</b>		0.48 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	0.082	16.99	16.99	169865	169865
bumps	non noble metal	copper	7440-50-8	0.005	0.95	0.95	9459	9459
leadframe	non noble metal	nickel	7440-02-0	0.174	36.16	36.16	361509	361509
encapsulation	organic material	carbon black	1333-86-4	0.001	0.21		2104	
	plastics	epoxy resin	-	0.029	6.10		61012	
	inorganic material	silicondioxide	60676-86-0	0.172	35.77	42.08	357654	420770
leadfinish	noble metal	gold	7440-57-5	0.006	1.25	1.25	12524	12524
plating	noble metal	silver	7440-22-4	0.010	2.04	2.04	20449	20449
ubm	non noble metal	tungsten	7440-33-7	0.000	0.00		27	
	non noble metal	titanium	7440-32-6	0.000	0.00		50	
	non noble metal	copper	7440-50-8	0.000	0.01	0.01	144	221
solder	noble metal	silver	7440-22-4	0.000	0.01		119	
	non noble metal	tin	7440-31-5	0.002	0.51	0.52	5084	5203
*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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