



## Material Content Data Sheet



<b>Sales Product Name</b>		TLE9221SX		<b>Issued</b>		20. July 2018			
<b>MA#</b>		MA001358946							
<b>Package</b>		PG-SSOP-16-1		<b>Weight*</b>		137.50 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	1.403	1.02	1.02	10202	10202	
leadframe	inorganic material	phosphorus	7723-14-0	0.009	0.01		67		
		non noble metal	zinc	7440-66-6	0.037	0.03		268	
		non noble metal	iron	7439-89-6	0.736	0.54		5354	
wire	non noble metal	copper	7440-50-8	29.889	21.74	22.32	217378	223067	
		noble metal	gold	7440-57-5	0.147	0.11	0.11	1066	1066
		organic material	carbon black	1333-86-4	0.307	0.22		2235	
encapsulation	plastics	epoxy resin	-	11.985	8.72		87167		
		inorganic material	silicondioxide	60676-86-0	90.145	65.54	74.48	655614	745016
		leadfinish	noble metal	palladium	7440-05-3	0.000	0.00		3
noble metal	silver			7440-22-4	0.000	0.00		3	
noble metal	gold			7440-57-5	0.001	0.00		5	
plating	non noble metal	nickel	7440-02-0	0.698	0.51	0.51	5074	5085	
		noble metal	silver	7440-22-4	0.001	0.00		5	
		noble metal	gold	7440-57-5	0.001	0.00		10	
glue	noble metal	palladium	7440-05-3	0.001	0.00		6		
		non noble metal	nickel	7440-02-0	1.392	1.01	1.01	10124	10145
		plastics	epoxy resin	-	0.186	0.14		1355	
*deviation	< 10%			0.559	0.41	0.55	4064	5419	
Sum in total:						100.00		1000000	

### Important Remarks:

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