



Material Content Data Sheet



Halogen-Free

Sales Product Name	TLE9221SX	Issued	08. February 2022
MA#	MA005432688		
Package	PG-SSOP-16-1	Weight*	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	
	non noble metal	copper	7440-50-8	29.889	21.74	22.32	217378	223067
wire	noble metal	gold	7440-57-5	0.147	0.11	0.11	1066	1066
encapsulation	organic material	carbon black	1333-86-4	0.307	0.22		2235	
	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			3	
	noble metal	silver	7440-22-4	0.000			3	
	noble metal	gold	7440-57-5	0.001			5	
	non noble metal	nickel	7440-02-0	0.698	0.51	0.51	5074	5085
plating	noble metal	silver	7440-22-4	0.001			5	
	noble metal	palladium	7440-05-3	0.001			6	
	noble metal	gold	7440-57-5	0.001			10	
	non noble metal	nickel	7440-02-0	1.392	1.01	1.01	10124	10145
glue	plastics	epoxy resin	-	0.186	0.14		1355	
	noble metal	silver	7440-22-4	0.559	0.41	0.55	4064	5419
*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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