



## Material Content Data Sheet



Halogen-Free

<b>Sales Product Name</b>	TLE9185QX V33	<b>Issued</b>	09. February 2022
<b>MA#</b>	MA005569643		
<b>Package</b>	PG-VQFN-48-31	<b>Weight*</b>	129.68 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	3.450	2.66	2.66	26600	26600
leadframe	inorganic material	phosphorus	7723-14-0	0.018	0.01		138	
	non noble metal	zinc	7440-66-6	0.072	0.06		553	
	non noble metal	iron	7439-89-6	1.433	1.11		11051	
	non noble metal	copper	7440-50-8	58.193	44.87	46.05	448736	460478
wire	non noble metal	copper	7440-50-8	0.644	0.50	0.50	4966	4966
encapsulation	organic material	carbon black	1333-86-4	0.185	0.14		1427	
	plastics	epoxy resin	-	7.835	6.04		60417	
	inorganic material	silicondioxide	60676-86-0	53.673	41.39	47.57	413879	475723
leadfinish	non noble metal	tin	7440-31-5	2.596	2.00	2.00	20021	20021
plating	noble metal	silver	7440-22-4	0.614	0.47	0.47	4733	4733
glue	plastics	epoxy resin	-	0.223	0.17		1720	
	noble metal	silver	7440-22-4	0.747	0.58	0.75	5759	7479
*deviation	< 10%				Sum in total:	100.00		1000000

### Important Remarks:

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