



## Material Content Data Sheet



<b>Sales Product Name</b>		TLD5190QU		<b>Issued</b>		2. August 2018			
<b>MA#</b>		MA001680144							
<b>Package</b>		PG-TQFP-48-9		<b>Weight*</b>		144.60 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	2.441	1.69	1.69	16884	16884	
leadframe	inorganic material	phosphorus	7723-14-0	0.017	0.01		116		
		non noble metal	zinc	7440-66-6	0.067	0.05		462	
		non noble metal	iron	7439-89-6	1.337	0.92		9246	
wire	non noble metal	non noble metal	copper	7440-50-8	54.283	37.54	38.52	375416	385240
		non noble metal	copper	7440-50-8	0.597	0.41	0.41	4127	4127
		encapsulation	organic material	carbon black	1333-86-4	0.404	0.28		2795
encapsulation	plastics	epoxy resin	-	10.913	7.55		75476		
		inorganic material	silicondioxide	60676-86-0	69.523	48.09	55.92	480809	559080
		leadfinish	noble metal	silver	7440-22-4	0.001	0.00		7
noble metal	palladium			7440-05-3	0.001	0.00		8	
noble metal	gold			7440-57-5	0.002	0.00		12	
plating	non noble metal	noble metal	nickel	7440-02-0	1.808	1.25	1.25	12506	12533
		noble metal	silver	7440-22-4	0.001	0.00		8	
		noble metal	palladium	7440-05-3	0.001	0.00		9	
glue	noble metal	noble metal	gold	7440-57-5	0.002	0.00		14	
		non noble metal	nickel	7440-02-0	2.052	1.42	1.42	14190	14221
		plastics	epoxy resin	-	0.229	0.16		1583	
*deviation	< 10%			0.916	0.63	0.79	6332	7915	
Sum in total:						100.00		1000000	

### Important Remarks:

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