



## Material Content Data Sheet



<b>Sales Product Name</b>				1ED020I12FA2		<b>Issued</b>		3. July 2019	
<b>MA#</b>				MA005349426					
<b>Package</b>				PG-DSO-20-77		<b>Weight*</b>		561.45 mg	
Construction Element	Material Group	Substances	CAS# if applicable	Weight [mg]	Average Mass [%]	Sum [%]	Average Mass [ppm]	Sum [ppm]	
chip_1	inorganic material	silicon	7440-21-3	1.477	0.26	0.26	2631	2631	
chip_2	inorganic material	silicon	7440-21-3	3.071	0.55	0.55	5471	5471	
leadframe	inorganic material	phosphorus	7723-14-0	0.035	0.01		62		
	non noble metal	zinc	7440-66-6	0.140	0.02		250		
	non noble metal	iron	7439-89-6	2.805	0.50		4996		
wire	non noble metal	copper	7440-50-8	113.899	20.29	20.82	202864	208172	
	noble metal	gold	7440-57-5	0.737	0.13	0.13	1312	1312	
	encapsulation	organic material	carbon black	1333-86-4	1.308	0.23		2329	
encapsulation	plastics	epoxy resin	-	51.001	9.08		90838		
	inorganic material	silicondioxide	60676-86-0	383.601	68.34	77.65	683225	776392	
	leadfinish	noble metal	palladium	7440-05-3	0.001	0.00	1		
plating	noble metal	silver	7440-22-4	0.001	0.00		1		
	noble metal	gold	7440-57-5	0.001	0.00		2		
	non noble metal	nickel	7440-02-0	1.184	0.21	0.21	2108	2112	
	noble metal	silver	7440-22-4	0.000	0.00		1		
plating	noble metal	gold	7440-57-5	0.000	0.00		1		
	noble metal	palladium	7440-05-3	0.000	0.00		1		
	non noble metal	nickel	7440-02-0	0.063	0.01	0.01	112	115	
glue	plastics	epoxy resin	-	0.533	0.09		949		
	noble metal	silver	7440-22-4	1.598	0.28	0.37	2846	3795	
*deviation	< 10%			Sum in total:		100.00		1000000	

### Important Remarks:

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