

Material Content Data Sheet

RoHS | Halogen-Free

Sales Product Name	1ED020I12FA2	**Issued**	3. July 2019
MA#	MA002944458		
Package	PG-DSO-20-77	**Weight***	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	
	non noble metal	copper	7440-50-8	113.899	20.29	20.82	202864	208172
wire	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	
	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	
	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
plating	noble metal	silver	7440-22-4	0.000	0.00		1	
	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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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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