



Material Content Data Sheet



Sales Product Name				2ED020I12-F2		Issued		9. January 2019	
MA#				MA004091404					
Package				PG-DSO-36-60		Weight*		614.37 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	3.071	0.50	0.50	4999	4999	
chip_2	inorganic material	silicon	7440-21-3	3.071	0.50	0.50	4999	4999	
chip_3	inorganic material	silicon	7440-21-3	1.477	0.24	0.24	2404	2404	
chip_4	inorganic material	silicon	7440-21-3	1.477	0.24	0.24	2404	2404	
leadframe	inorganic material	phosphorus	7723-14-0	0.052	0.01		84		
	non noble metal	zinc	7440-66-6	0.207	0.03		337		
	non noble metal	iron	7439-89-6	4.146	0.67		6748		
	non noble metal	copper	7440-50-8	168.346	27.40	28.11	274015	281184	
wire	noble metal	gold	7440-57-5	1.255	0.20	0.20	2043	2043	
encapsulation	organic material	carbon black	1333-86-4	1.261	0.21		2053		
	plastics	epoxy resin	-	49.182	8.01		80053		
	inorganic material	silicondioxide	60676-86-0	369.914	60.22	68.44	602106	684212	
leadfinish	noble metal	palladium	7440-05-3	0.001	0.00		2		
	noble metal	silver	7440-22-4	0.001	0.00		2		
	noble metal	gold	7440-57-5	0.002	0.00		3		
	non noble metal	nickel	7440-02-0	1.865	0.30	0.30	3035	3042	
plating	noble metal	silver	7440-22-4	0.003	0.00		4		
	noble metal	palladium	7440-05-3	0.003	0.00		5		
	noble metal	gold	7440-57-5	0.005	0.00		8		
	non noble metal	nickel	7440-02-0	4.768	0.78	0.78	7761	7778	
glue	plastics	epoxy resin	-	1.065	0.17		1734		
	noble metal	silver	7440-22-4	3.195	0.52	0.69	5201	6935	
*deviation	< 10%		Sum in total:			100.00		1000000	

Important Remarks:

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3. All statements are based on our present knowledge, are provided 'as is' and may be subject to change at any time due to technical requirements and development without notification.

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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