



Material Content Data Sheet



Halogen-Free

Sales Product Name	IR38164MTRPBF	Issued	12. August 2021
MA#	MA005583416		
Package	PG-IQFN-34-900	Weight*	118.34 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	0.793	0.67	0.67	6697	6697
chip_2	inorganic material	silicon	7440-21-3	0.278	0.23	0.23	2349	2349
chip_3	inorganic material	silicon	7440-21-3	3.873	3.27	3.27	32732	32732
leadframe	inorganic material	phosphorus	7723-14-0	0.013	0.01		110	
	non noble metal	zinc	7440-66-6	0.052	0.04		441	
	non noble metal	iron	7439-89-6	1.043	0.88		8810	
	non noble metal	copper	7440-50-8	42.333	35.77	36.70	357725	367086
wire	noble metal	gold	7440-57-5	0.504	0.43	0.43	4262	4262
encapsulation	organic material	carbon black	1333-86-4	0.103	0.09		874	
	plastics	epoxy resin	-	5.327	4.50		45010	
	inorganic material	silicondioxide	60676-86-0	46.284	39.14	43.73	391108	436992
leadfinish	noble metal	palladium	7440-05-3	0.001			12	
	noble metal	gold	7440-57-5	0.002			19	
	non noble metal	nickel	7440-02-0	0.041	0.03	0.03	345	376
plating	noble metal	palladium	7440-05-3	0.001			12	
	noble metal	gold	7440-57-5	0.002			20	
	non noble metal	nickel	7440-02-0	0.042	0.04		356	
	noble metal	silver	7440-22-4	0.604	0.51	0.55	5103	5491
solder	noble metal	silver	7440-22-4	0.132	0.11		1116	
	non noble metal	tin	7440-31-5	0.264	0.22		2232	
	non noble metal	lead	7439-92-1	4.887	4.13	4.46	41292	44640
heat sink clip	inorganic material	phosphorus	7723-14-0	0.004			30	
	non noble metal	zinc	7440-66-6	0.014	0.01		119	
	non noble metal	iron	7439-89-6	0.282	0.24		2385	
	non noble metal	copper	7440-50-8	11.460	9.68	9.93	96841	99375
*deviation	< 10%	Sum in total:				100.00		1000000

Important Remarks:

1. Infineon Technologies AG provides full material declaration based on information provided by third parties and has taken and continues to take reasonable steps to provide representative and accurate information.
2. Infineon Technologies AG and Infineon Technologies AG suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.

Company	Infineon Technologies AG
Address	81726 Neubiberg
Internet	www.infineon.com

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 contains Pb according RoHS exemption 7a, Lead in high melting temperature type solders.

Company	Infineon Technologies AG
Address	81726 Neubiberg
Internet	www.infineon.com