



Material Content Data Sheet



Sales Product Name		IKFW50N60DH3		Issued		24. January 2018		
MA#		MA001674414						
Package		PG-HSIP247-3-1		Weight*		5818.36 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	4.785	0.08	0.08	822	822
leadframe	inorganic material	phosphorus	7723-14-0	0.164	0.00		28	
	non noble metal	iron	7439-89-6	0.545	0.01		94	
	non noble metal	copper	7440-50-8	544.561	9.36	9.37	93594	93716
	non noble metal	aluminium	7429-90-5	12.254	0.21	0.21	2106	2106
wire	inorganic material	zinc oxide	1314-13-2	0.613	0.01		105	
encapsulation	plastics	silicone resin	-	1.378	0.02		237	
	inorganic material	alumina	1344-28-1	13.322	0.23		2290	
	organic material	carbon black	1333-86-4	22.104	0.38		3799	
	plastics	epoxy resin	-	419.971	7.22		72180	
	inorganic material	silicon dioxide	60676-86-0	1768.298	30.39	38.25	303917	382528
leadfinish	non noble metal	tin	7440-31-5	16.291	0.28	0.28	2800	2800
plating	inorganic material	phosphorus	7723-14-0	0.001	0.00		1	
	non noble metal	nickel	7440-02-0	0.456	0.01	0.01	78	79
solder	non noble metal	antimony	7440-36-0	0.354	0.01		61	
	noble metal	silver	7440-22-4	0.885	0.02		152	
	non noble metal	tin	7440-31-5	2.301	0.04	0.07	395	608
heatspreader	inorganic material	phosphorus	7723-14-0	0.903	0.02		155	
	non noble metal	iron	7439-89-6	3.010	0.05		517	
	non noble metal	copper	7440-50-8	3006.169	51.66	51.73	516669	517341
*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

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