



Material Content Data Sheet



Sales Product Name				IKFW40N60DH3E		Issued		22. January 2018	
MA#				MA001503566					
Package				PG-HSIP247-3-1		Weight*		5801.09 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	2.591	0.04	0.04	447	447	
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	9.39	9.40	93872	93994	
	non noble metal	aluminium	7429-90-5	7.578	0.13	0.13	1306	1306	
wire	inorganic material	zinc oxide	1314-13-2	0.256	0.00		44		
encapsulation	plastics	silicone resin	-	0.577	0.01		99		
	inorganic material	alumina	1344-28-1	5.575	0.10		961		
	organic material	carbon black	1333-86-4	22.104	0.38		3810		
	plastics	epoxy resin	-	419.971	7.24		72395		
	inorganic material	silicon dioxide	60676-86-0	1768.298	30.48	38.21	304822	382131	
leadfinish	non noble metal	tin	7440-31-5	16.291	0.28	0.28	2808	2808	
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	79	80	
solder	non noble metal	antimony	7440-36-0	0.204	0.00		35		
	noble metal	silver	7440-22-4	0.510	0.01		88		
	non noble metal	tin	7440-31-5	1.327	0.02	0.03	229	352	
heatspreader	inorganic material	phosphorus	7723-14-0	0.903	0.02		156		
	non noble metal	iron	7439-89-6	3.010	0.05		519		
	non noble metal	copper	7440-50-8	3006.169	51.83	51.90	518207	518882	
*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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