



Material Composition Declaration

EPC2051

Company Name	Efficient Power Conversion (EPC)	Issue Date:	11/19/2018
Contact Name:	Yanping Ma	Contact Title:	VP Quality
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Part Weight:	1.9 mg	Type of Product:	eGaN FET

Construction Element	Substance	CAS No. If Applicable	Weight	Mass	Sum	Mass
			(mg)	(%)	(%)	(ppm)
Chip	Silicon	7440-21-3	1.7371	92.8183	95.2119	928183
	Silicon oxide	7631-86-9	0.0069	0.3695		3695
	Silicon nitride	12033-89-5	0.0032	0.1706		1706
	Gallium nitride	25617-97-4	0.0062	0.3294		3294
	Aluminum	7429-90-5	0.0124	0.6635		6635
	Aluminum nitride	24304-00-5	0.0014	0.0748		748
	Titanium	7440-32-6	0.0002	0.0132		132
	Titanium nitride	25583-20-4	0.0012	0.0668		668
	Copper	7440-50-8	0.0004	0.0221		221
	Tungsten	7440-33-7	0.0005	0.0288		288
	Polyimide		0.0123	0.6550	6550	
Under Bump Metal	Titanium	7440-32-6	0.0001	0.0051	0.1336	51
	Nickel	7440-02-0	0.0000	0.0000		0
	Vanadium	7440-62-2	0.0000	0.0000		0
	Copper	7440-50-8	0.0024	0.1285		1285
Copper Pillar	Tin	7440-31-5	0.0244	1.3013	4.6545	13013
	Silver	7440-22-4	0.0010	0.0545		545
	Copper	7440-50-8	0.0617	3.2987		32987
Sum in total:			1.8716	100.0000	100.0000	1000000

Note:

The substance content disclosed herewith is approximate and is based on engineering calculation. Statements are based on our present knowledge and may subject to change at any time due to technical requirements and development. EPC may update this document without notification. Statement may not include information regarding the minute quantities of dopant and metal materials in the electrical devices contained within the finished product.