



Material Composition Declaration

EPC2014

Company Name	Efficient Power Conversion (EPC)	Issue Date:	5/4/2016
Contact Name:	Yanping Ma	Contact Title:	VP Quality
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Part Weight:	3.3 mg	Type of Product:	eGaN FET

Construction Element	Substance	CAS No. If Applicable	Weight (mg)	Mass (%)	Sum (%)	Mass (ppm)
Chip	Silicon	7440-21-3	2.9085	87.80	89.80	878005
	Silicon oxide	7631-86-9	0.0114	0.34		3438
	Silicon nitride	12033-89-5	0.0037	0.11		1112
	Gallium nitride	25617-97-4	0.0137	0.41		4124
	Aluminum	7429-90-5	0.0221	0.67		6669
	Aluminum nitride	24304-00-5	0.0033	0.10		997
	Titanium	7440-32-6	0.0006	0.02		190
	Titanium nitride	25583-20-4	0.0020	0.06		601
	Copper	7440-50-8	0.0007	0.02		221
	Tungsten	7440-33-7	0.0008	0.02		234
	Polyimide		0.0080	0.24		2427
Under Bump Metal	Titanium	7440-32-6	0.0005	0.02	0.19	159
	Nickel	7440-02-0	0.0016	0.05		474
	Vanadium	7440-62-2	0.0001	0.00		24
	Copper	7440-50-8	0.0042	0.13		1263
Solder Bump	Tin	7440-31-5	0.3165	9.56	10.01	95559
	Silver	7440-22-4	0.0133	0.40		4002
	Copper	7440-50-8	0.0017	0.05		500
Sum in total:			3.3	100	100	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.