



Material Composition Declaration

EPC2021

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:	25.0 mg	Type of Product:	eGaN FET

Construction Element	Substance	CAS No. If Applicable	Weight (mg)	Mass (%)	Sum (%)	Mass (ppm)
Chip	Silicon	7440-21-3	21.8754	87.39	89.71	873868
	Silicon oxide	7631-86-9	0.0849	0.34		3391
	Silicon nitride	12033-89-5	0.0276	0.11		1103
	Gallium nitride	25617-97-4	0.1030	0.41		4115
	Aluminum	7429-90-5	0.1689	0.67		6748
	Aluminum nitride	24304-00-5	0.0248	0.10		992
	Titanium	7440-32-6	0.0041	0.02		164
	Titanium nitride	25583-20-4	0.0153	0.06		611
	Copper	7440-50-8	0.0056	0.02		224
	Tungsten	7440-33-7	0.0057	0.02		230
	Polyimide		0.1407	0.56		5623
Under Bump Metal	Titanium	7440-32-6	0.0037	0.01	1.23	146
	Nickel	7440-02-0	0.1086	0.43		4337
	Vanadium	7440-62-2	0.0000	0.00		0
	Copper	7440-50-8	0.1966	0.79		7852
Solder Bump	Tin	7440-31-5	2.2112	8.83	9.06	88332
	Silver	7440-22-4	0.0567	0.23		2265
	Copper	7440-50-8	0.0000	0.00		0
Sum in total:			25.0	100.00	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.