



Material Composition Declaration

EPC2111

Company Name	Efficient Power Conversion (EPC)	Issue Date:	3/14/2018
Contact Name:	Yanping Ma	Contact Title:	VP Quality
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Part Weight:	9.8 mg	Type of Product:	eGaN FET

Construction Element	Substance	CAS No. If Applicable	Weight (mg)	Mass (%)	Sum (%)	Mass (ppm)
Chip	Silicon	7440-21-3	8.2534	84.0384	86.3437	840384
	Silicon oxide	7631-86-9	0.0333	0.3394		3394
	Silicon nitride	12033-89-5	0.0112	0.1140		1140
	Gallium nitride	25617-97-4	0.0389	0.3959		3959
	Aluminum	7429-90-5	0.0613	0.6238		6238
	Aluminum nitride	24304-00-5	0.0094	0.0954		954
	Titanium	7440-32-6	0.0017	0.0174		174
	Titanium nitride	25583-20-4	0.0056	0.0575		575
	Copper	7440-50-8	0.0020	0.0207		207
	Tungsten	7440-33-7	0.0027	0.0273		273
	Polyimide		0.0603	0.6139		6139
Under Bump Metal	Titanium	7440-32-6	0.0008	0.0077	0.6475	77
	Nickel	7440-02-0	0.0000	0.0000		0
	Vanadium	7440-62-2	0.0000	0.0000		0
	Copper	7440-50-8	0.0628	0.6399		6399
Solder Bump	Tin	7440-31-5	1.2201	12.4234	13.0087	124234
	Silver	7440-22-4	0.0511	0.5203		5203
	Copper	7440-50-8	0.0064	0.0650		650
Sum in total:			9.8210	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.