



# Material Composition Declaration

## EPC2218

Company Name	Efficient Power Conversion (EPC)	Issue Date:	12/1/2022
Contact Name:	Yanping Ma	Contact Title:	VP Quality
Contact Phone:	(310) 615-0280	Contact Email:	yanping.ma@epc-co.com
Part Weight:	10.2 mg	Type of Product:	eGaN FET

Construction Element	Substance	CAS No. If Applicable	Weight	Mass	Sum	Mass
			(mg)	(%)	(%)	(ppm)
Chip	Silicon	7440-21-3	7.8722	76.8845	80.0882	768845
	Silicon oxide	7631-86-9	0.0509	0.4973		4973
	Silicon nitride	12033-89-5	0.0149	0.1453		1453
	Gallium nitride	25617-97-4	0.0392	0.3828		3828
	Aluminum	7429-90-5	0.0768	0.7502		7502
	Aluminum nitride	24304-00-5	0.0083	0.0813		813
	Titanium	7440-32-6	0.0016	0.0160		160
	Titanium nitride	25583-20-4	0.0683	0.6673		6673
	Copper	7440-50-8	0.0013	0.0125		125
	Tungsten	7440-33-7	0.0080	0.0786		786
	Polyimide		0.0586	0.5725	5725	
Under Bump Metal	Titanium	7440-32-6	0.0013	0.0127	0.1391	127
	Copper	7440-50-8	0.0129	0.1263		1263
Solder Bump	Copper	7440-50-8	0.1294	1.2634	19.7727	12634
	Nickel	7440-02-0	0.0772	0.7537		7537
	Tin	7440-31-5	1.7853	17.4360		174360
	Silver	7440-22-4	0.0327	0.3196		3196
Sum in total:			10.2389	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.