ON Semiconductor				10/15/2019
Base Part		PYTHON1300	HF	Pb-free
Orderable Part		NOIP1FN1300A-QTI	Total weight (mg)	1056.06
Homogenous Material	Weight (mg)	Substance in Mat.	CAS #	% Avg. Weight
Ceramic Substrate		Cobalt (Co)	7440-48-4	0.01
		Molybdenum (Mo)	7439-98-7	0.01
		Tungsten (W)	7440-33-7	1.2
		Silica Amorphous (SiO2)	7631-86-9	6.3
		Aluminum Trioxide (Al2O3)	1344-28-1	88.6
		Nickel (Ni)	7440-02-0	0.28
		Gold (Au)	7440-57-5	0.2
	665.12	Chromium Trioxide (Cr2O3)	1308-38-9	3.4
Die	119.22	Silicon (Si)	7440-21-3	100
Die Attach		Epoxized Condensate Of Para-Hydrobenzaldehyde And Alkyl Phenol	129915-35-1	15
	48.62	Silver (Ag)	7440-22-4	85
Glass Attach Epoxy		Bisphenol A_Epichlorohydrin polymer	25068-38-6	41.6
		4,4'-Diaminodiphenyl Sulfone (DDS-4,4')	80-08-0	0.3
		Filler (SiO2?C2H6Cl2Si)	68611-44-9	40
		Carbon Black (C)	1333-86-4	2.6
	3.41	Additive	1760-24-3, 2530-83-8	15.5
Glass Lid /Cap		Boron Trioxide (B2O3)	1303-86-2	8.4
		Silica Amorphous (SiO2)	7631-86-9	59.48
		Barium Monoxide (BaO)	1304-28-5	8.2
		Aluminum Trioxide (Al2O3)	1344-28-1	7.92
	219.48	Calcium Monoxide (CaO)	1305-78-8	16
Wire Bond - Al	0.21	Aluminum (Al)	7429-90-5	100

**Materials Disclosure Disclaimer:** Even though all possible efforts have been made to provide you with the most accurate information, we cannot guarantee to its accuracy since the data has been compiled based on the ranges provided, and some information provided by the subcontractors and raw material suppliers may have been withheld to protect their business proprietary information. Thus this information is provided only as estimates, and do not include trace levels fo dopants and metal materials contained within silicon devices in the finished products. There is no intentional use of Mercury, Hexavalent Chromium, Cadmium, PBB or PBDE (5 of the 6 RoHS banned substances) in this or any of our other products. For further explanation on material composition calculations, please view our Product Chemical Content Brochure at:

http://www.onsemi.com/pub/Collateral/BRD8022-D.PDF