

* Material Composition - nRF52811-CAAA

Material	Purpose	Substance Composition	CAS Number	Weight by mg	% weight of substance per Homogenous material	PPM	% weight of substance per package
Polybenzoxazole1	Dielectric	Proprietary	-----	0.04501	100%	7652	0.765%
Polybenzoxazole2	Dielectric	Proprietary	-----	0.03835	100%	6521	0.652%
RDL Seed Layer	Seed Layer	Ti	7440-32-6	0.00031	3.93%	52	0.005%
	Seed Layer	W	7440-33-7	0.00275	35.40%	468	0.047%
	Seed Layer	Cu	7440-50-8	0.00472	60.67%	802	0.080%
Copper	Interconnect	Cu	7440-50-8	0.09433	100%	16040	1.604%
UBM Seed Layer	Seed Layer	Ti	7440-32-6	0.00014	3.93%	24	0.002%
	Seed Layer	W	7440-33-7	0.00125	35.40%	212	0.021%
	Seed Layer	Cu	7440-50-8	0.00214	60.67%	364	0.036%
Copper	UBM	Cu	7440-50-8	0.09629	100%	16373	1.637%
Solder Ball	Interconnect	Sn	7440-31-5	1.00848	95.50%	171475	17.148%
	Interconnect	Ag	7440-22-4	0.04224	4.00%	7182	0.718%
	Interconnect	Cu	7440-50-8	0.00528	0.50%	898	0.090%
Die	Circuit	Si	7440-21-3	4.31801	100%	734206	73.421%
Top Surface Laminate	Mark Surface	Proprietary	-----	0.22190	100%	37731	3.773%
Package Weight (mg):				5.88		% Total:	100%