## Material Declaration Data Sheet (MDDS)

Customer Nordic



Device Name	nRF52810-QCAA Build DA0									Techno	ology®
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Published By	Noreen Lizette Carbonell										
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Material Type	Material Name	Supplier Name	Material Weight(g)	Material Weight(mg)	Material % in Product	Substance Name	CAS#	Substance %	Substance	Substance	PPM
								in Material	Weight(g)	Weight(mg)	in Product
Lead Frame	C194	HDS	0.031920	31.92	45.0530%	Iron (Fe)	7439-89-6	2.35%	0.000750	0.75	10587.47
						Phosphorus (P)	7723-14-0	0.03%	0.000010	0.01	135.16
						Zinc (Zn)	7440-66-6	0.12%	0.000038	0.04	540.64
						Copper (Cu)	7440-50-8	97.50%	0.031122	31.12	439267.17
Internal Lead Frame Plating	Ag Plating	HDS	0.000658	0.66	0.9285%	Silver (Ag)	7440-22-4	100.00%	0.000658	0.66	9285.42
External Lead Frame Plating	Sn Plating	Rohm and Haas	0.001804	1.80	2.5465%	Tin (Sn)	7440-31-5	100.00%	0.001804	1.80	25465.00
EMC (Epoxy Molding Compound)	G700	Sumitomo	0.030970	30.97	43.7127%	Epoxy Resin	Proprietary	5.00%	0.001548	1.55	21856.34
						Phenol Resin	Proprietary	5.00%	0.001548	1.55	21856.34
						Silica(Amorphous) A	60676-86-0	75.00%	0.023227	23.23	327845.03
						Silica(Amorphous) B	7631-86-9	14.50%	0.004491	4.49	63383.37
						Carbon Black	1333-86-4	0.50%	0.000155	0.15	2185.63
Die	Silicon Die	Customer Consigned	0.004819	4.82	6.8021%	Silicon (Si)	7440-21-3	100.00%	0.004819	4.82	68021.40
Die Attach	АМК-06	Henkel	0.000492	0.49		Silver	7440-22-4	78.00%	0.000384	0.38	5413.47
						Carbocyclic acrylate	Proprietary	10.00%	0.000049	0.05	694.03
						Bismaleimide resin	13676-54-5	10.00%	0.000049	0.05	694.03
						Acrylate	Proprietary	1.00%	0.000005	0.00	69.40
						2-(3,4-Epoxycyclohexyl)ethyltrimethoxysilane	3388-04-3	1.00%	0.000005	0.00	69.40
Bonding Wire	AuPCC	МКЕ	0.000186	0.19	0.2631%	Copper (Cu)	7440-50-8	98.00%	0.000183	0.18	2578.09
						Palladium (Pd)	7440-05-3	1.50%	0.000003	0.00	39.46
						Gold (Au)	7440-57-5	0.4986%	0.000001	0.00	13.12
						Silver (Ag)	7440-22-4	0.0014%	0.000000	0.00	0.04
			0.070849	70.85	100.0000%			700.00%	0.070849	70.85	1000000.00
				Calculated						Calculated	

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