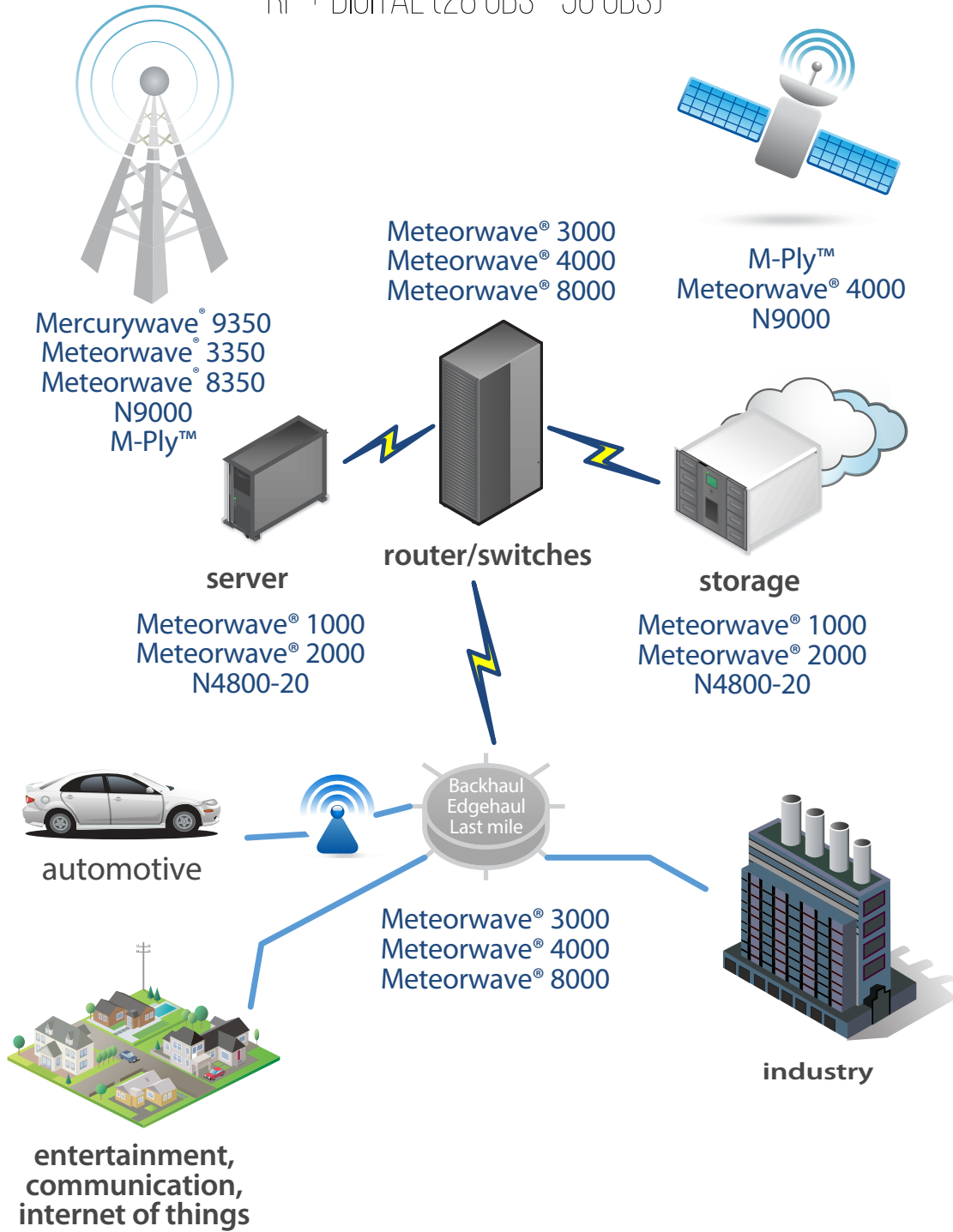


NELCO MATERIALS FOR A 4.5G AND 5G CONNECTED WORLD

RF + DIGITAL (28 GBS - 56 GBS)



Nelco Materials for a 4.5G and 5G Connected World

Material	Description	High Temp Lead Free Compatible ²	CAF Resistant ³	TG °C (DMA)	10 GHz Dk Dielectric Constant ¹	10 GHz Df Dissipation Factor ¹
Mercurywave® 9350	Microwave Performance, Very Low Loss, Modified Epoxy	Yes	-	200	3.50	0.0040
Meteorwave® 1000	Very Low Loss, Very High Reliability	Yes	Yes	240	3.40	0.0047
Meteorwave® 1000NF	Very Low Loss, Very High Reliability No Flow Prepreg	Yes	Yes	240	3.40	0.0047
Meteorwave® 2000	Ultra Low Loss, Very High Reliability	Yes	Yes	240	3.20	0.0034
Meteorwave® 3000	Very Low Loss, Very High Reliability	Yes	Yes	200	3.47	0.0039
Meteorwave® 4000	Ultra Low Loss, Very High Reliability	Yes	Yes	200	3.31	0.0024
Meteorwave® 8000	Next Generation, Ultra Low Loss, Very High Reliability	Yes	Yes	185	3.28	0.0016
Meteorwave® 3350	High Speed, Ultra Low Loss, Controlled 3.5 Dk	Yes	Yes	200	3.50	0.0038
Meteorwave® 8350	High Speed, Extreme Low Loss, Controlled 3.5 Dk	Yes	Yes	185	3.50	0.0018
M-Ply™	Ultra Low Loss Bonding Ply	Yes	Yes	200	3.28	0.0020
N4800-20	Thermally Robust, High Speed, Low Loss Modified Epoxy	Yes	Yes	200	3.50	0.0074
N4800-20 SI®	Thermally Robust, High Speed, Low Loss Modified Epoxy	Yes	Yes	201	3.24	0.0064
NH9000	Woven Glass, Ceramic-Loaded PTFE	Yes	-	-	2.94 - 4.50	0.0022 - 0.0030
NL9000	Woven Glass-Reinforced PTFE	Yes	-	-	2.94 - 3.50	0.0017
NX9000	Woven Glass-Reinforced PTFE	Yes	-	-	2.40 - 3.20	0.0022 - 0.0030
NY9000	Woven Glass-Reinforced PTFE	Yes	-	-	2.08 - 2.33	0.0017

¹ Dk and Df numbers provided are typical values. RF/Microwave material Dk and Df values are based on actual constructions.

² High-temperature lead free assembly compatibility is based on Td, T260 and 245°C / 260°C reflow testing. Actual results will vary based on assembly and board construction conditions.

³ CAF resistance testing is based on specific coupon design and test protocols.

All test data provided are typical values and not intended to be specification values. For review of critical specification tolerances, please contact a company representative directly.