

FR-4 Epoxies	Description	Lead-Free** Assembly Compatible	CAF** Resistant	T _g (DSC) °C	Dielectric* Constant (Dk)		Dissipation* Factor (Df) 1 MHz
					1 MHz	1 GHz	
N4000-2	Multifunctional Epoxy	-	-	140	4.3	4.1	0.023
N4000-6	High Tg Multifunctional Epoxy	-	-	175	4.3	4.1	0.023
N4000-6 FC	Fast-Cure, High Tg Multifunctional Epoxy	-	-	175	4.3	4.1	0.023
N4000-6 FC BC®	Buried Capacitance™, High Tg Epoxy	-	-	175	3.8	3.6	0.023
N4000-7	Low CTE Multifunctional Epoxy	Yes	Yes	155	4.5	4.0	0.018
N4000-7 SI®	Low CTE Multifunctional Epoxy	Yes	Yes	155	4.0	3.6	0.016
N4000-7 EF®	165°C Tg Halogen-Free Epoxy	Yes	Yes	165	4.1	4.0	0.013
N4000-11	Low CTE, High Tg Multifunctional Epoxy	Yes	Yes	175	4.3	4.1	0.012
N4000-11 BC®	Buried Capacitance™, Low CTE, High Tg Epoxy	Yes	Yes	175	3.7	3.5	0.016
N4000-29	Lead Free, High Tg Multifunctional Epoxy	Yes	Yes	185	4.5	4.3	0.016
N4000-29 BC®	Buried Capacitance™, Lead Free, High Tg Epoxy	Yes	Yes	185	4.5	4.3	0.022
High Performance					1 GHz	10 GHz	10 GHz
N4000-12	High Speed, Low Loss, CAF Resistant System	Yes	Yes	190	3.7	3.6	0.008
N4000-12 SI®	High Speed, Low Loss, CAF Resistant System	Yes	Yes	190	3.4	3.3	0.007
N4000-13	High Speed, Low Loss Epoxy	Yes	Yes	210	3.7	3.6	0.008
N4000-13 BC®	Buried Capacitance™, High Speed, Low Loss	Yes	Yes	210	3.5	3.3	0.008
N4000-13 SI®	High Speed, Low Loss Epoxy	Yes	Yes	210	3.2	3.2	0.007
N4350-13 RF	Microwave Performance, Modified Epoxy	Yes	-	210	-	3.5	0.0065
N4380-13 RF	Microwave Performance, Modified Epoxy	Yes	-	210	-	3.8	0.007
N5000	BT Epoxy	Yes	Yes	185	3.6	3.6	0.014
N5000-30 & 32	Chip Packaging BT Epoxy (not available in Asia)	Yes	-	205	-	-	-
N7000-1	non-MDA Polyimide	Yes	-	260	3.9	3.8	0.016
N7000-2 HT /-3	non-MDA Toughened Polyimide	Yes	-	260	3.5	3.5	0.015
N7000-2 V0	UL 94 V-0 Toughened Polyimide	Yes	-	250	3.8	3.8	0.010
N8000	Cyanate Ester	Yes	-	250	3.6	3.5	0.011
N9000-13 RF	PTFE Blended Laminate	Yes	-	220	-	3.00-3.50	0.0040-0.0055
NH9000	Woven, Glass/Ceramic Loaded PTFE	Yes	-	-	-	2.94-4.50	0.0022-0.0030
NX9000	Woven, Glass-Reinforced PTFE	Yes	-	-	-	2.40-3.20	0.0016-0.0024
NY9000	Woven, Glass-Reinforced PTFE	Yes	-	-	-	2.08-2.33	0.0006-0.0011

*Dk and Df numbers provided are typical values calculated at a 50% resin content except where noted. BC material values are provided for a standard construction (approximately 70% resin content). Microwave material values are controlled and not listed by resin content.

**CAF resistance and lead-free compatibility has been established to the specified hours using a specific test procedures. Testing is ongoing and results are currently available for only a limited number of products. For details on this or other material testing, please visit www.parkelectro.com or contact your local Nelco representative.

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如您需要技术支持或报价服务,请联系 Email: LHXPCB888@126.com Tel:13528895508 Web:www.lianhuixin.com