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Inphi / NEL High-Speed Logic ICs

Cross-Reference Guide

	PART NUMBER		POWER DISSIPATION (W)		POWER SUPPLY (V) ¹		MAX. OP. FREQUENCY ²	
	NEL	Inphi	NEL	Inphi	NEL	Inphi	NEL	Inphi
40-50 Gb/s ICs								
DFF	CI0085B	50700DF	1.5	0.6	-4.5	-3.3	43 Gb/s	50 Gb/s
TFF	CI0084	50720TF	1.1	0.6	-4.5	-3.3	43 GHz	50 GHz
47 Gb/s 4:1 MUX	MC740-430E	5080MX	42.0	1.2	-6.0	-3.3	47 Gb/s	50 Gb/s
20-25 Gb/s ICs								
2-Input OR/NOR	NLG4001, MOF01B	25712OR	2.3	0.6	-4.5	-3.3	20 Gb/s	25 Gb/s
2-Input AND/NAND	NLG4019, MOF19A	25712OR	2.3	0.6	-4.5	-3.3	20 Gb/s	25 Gb/s
2-Input XOR/XNOR	NLG4003	25710XR	2.3	0.6	-4.5	-3.3	20 Gb/s	25 Gb/s
DFF	NLG4021, MOG04	25700DF	2.3	0.6	-4.5	-3.3	25 Gb/s	25 Gb/s
TFF	NLG4022, MOG08	25720TF	1.7	0.6	-4.5	-3.3	25 GHz	25 GHz
2:1 Selector	NLG4115, CI9616 EVD15, MOD15	20708SE	2.5	0.4	-4.5	-3.3	20 Gb/s	20 Gb/s
10-18 Gb/s ICs								
2:1 Selector	NLG4115, CI9616 EVD15, MOD15	20708SE	1.7	0.40	-3.5	-3.3	18 Gb/s	20 Gb/s
2-Input OR/NOR	NLG4101, EVD01, MOD01	13712OR	1.4	0.29	-3.5	-3.3	10 Gb/s	13 Gb/s
2-Input AND/NAND	NLG4119, EVD19, MOD19	13712OR	1.4	0.29	-3.5	-3.3	10 Gb/s	13 Gb/s
2-Input XOR/XNOR	NLG4103, EVD03, MOD03	13710XR	1.4	0.26	-3.5	-3.3	10 Gb/s	13 Gb/s
Master Slave DFF	NLG4104, EVD04, MOD04	13700DF	1.5	0.25	-3.5	-3.3	10 Gb/s	13 Gb/s
Decision Circuit	NLG4106, EVD06, MOD06	13700DF	1.5	0.25	-3.5	-3.3	10 Gb/s	13 Gb/s
TFF	NLG4108, EVD08, MOD08	13720TF	1.3	0.22	-3.5	-3.3	13.5 GHz	16 GHz
1:2 Clock Distributor	NLG4120, EVD20, MOD20	13716CF	1.9	0.29	-3.5	-3.3	10 GHz	12.5 GHz
Modulator Driver	NLG4902	1310SZ	1.7	1.70 ²	-3.5, 4.0	-5.2, 3.3	10 Gb/s	13 Gb/s
Modulator Driver with DFF	NLG4904	13700DF 1310SZ	2.9	1.95	-3.5	-5.2, 3.3	10 Gb/s	13 Gb/s
1:2 Clock Distributor (AC Coupling)	NLG4130	13716CF	2.0	0.29	-3.5	-3.3	10 GHz	12.5 GHz
1:2 Clock Distributor (AC Coupling)	NLG4140	13716CF	1.4	0.29	-3.5	-3.3	12.5 GHz	12.5 GHz
2-Input AND/NAND (RZ Output)	NLG4137	25712OR	1.8	0.60	-3.5	-3.3	12.5 Gb/s	25 Gb/s
DFF	NLG4004A, MOF04C	25700DF	1.7	0.6	-4.5	-3.3	10-18 Gb/s	25 Gb/s
DFF	NLG4138	13700DF	1.4	0.25	-3.5	-3.3	12.5 Gb/s	13 Gb/s
DFF	NLG4144	25700DF	1.4	0.60	-3.5	-3.3	15 Gb/s	25 Gb/s
NRZ-to-RZ Converter	NLG4142, CI9955A	13706RZ	2.3	0.52	-3.5	-3.3	12.5 Gb/s	13 Gb/s
5-8 Gb/s ICs								
2-Input OR/NOR	NLG4501-2, MOA01	13712OR	0.80	0.29	-3.5	-3.3	8 Gb/s	13 Gb/s
2-Input AND/NAND	NLG4519-2, MOA19	13712OR	0.80	0.29	-3.5	-3.3	8 Gb/s	13 Gb/s
2-Input XOR/XNOR	NLG4503-2, MOA03	13710XR	0.36	0.26	-3.5	-3.3	5 Gb/s	13 Gb/s
Master Slave DFF	NLG4504-2, MOA04	13700DF	0.74	0.25	-3.5	-3.3	5 Gb/s	13 Gb/s
DFF with Slice	NLG4506-2, MOA06	13700DF	0.84	0.25	-3.5	-3.3	5 Gb/s	13 Gb/s
TFF	NLG4508-2, MOA08	13720TF	0.60	0.22	-3.5	-3.3	7 GHz	13 GHz
1:2 Clock Distributor	NLG4520-2, MOA20	13716CF	0.63	0.29	-3.5	-3.3	3 GHz	13 GHz
1:4 Clock Distributor	NLG4510-2, MOA10	13726CF	0.98	0.55	-3.5	-3.3	3 GHz	13 GHz
2:1 Selector	NLG4515-2, MOA15	20708SE	0.77	0.42	-3.5	-3.3	6 Gb/s	20 Gb/s
Pulse Driver	NLG4517-2, MOA17	13706RZ	0.42	0.52	-3.5	-3.3	5 Gb/s	13 Gb/s
4:1 Selector	NL4516-2, MOA16	5080MX	1.60	1.10	-3.5	-3.3	5 Gb/s	50 Gb/s

Notes:

¹ Inphi high-speed logic ICs also available with +3.3 V power supplies.

² All Inphi parts can operate from DC to specified maximum operating frequency.