

MII D10000 Series 0.5 – 18GHz
 Broad Band Detector Log Video Amplifiers
 (DLVAs)



Microwave Industries Inc.
 5009 Windplay Drive Suite 4
 El Dorado Hills, CA 95762

PHONE: 916-256-3500
 FAX: 916-256-3501

www.microwaveindustries.biz

DLVA Specifications – DC Coupled

- Features:
- Superior Log Linearity
 - Wide Bandwidth
 - Low Current Consumption

MIDA-D10000 Series						DC Power Consumption (No RF Signal)		Case Option SKC –
MII Model Number	Frequency Range (GHz) Min.	TSS (dBm)	Log Range (dBm)	Linearity (+/- Db) Any Freq.	VSWR (@ -23dBm) Max.	+12V to +15V (mA) Max.	-12V to -15V (mA) Max.	
+25 °C								
MIDA-D10520N	0.5 – 2.0	-44	-40 to +5	0.5	2.0:1	65	65	D1A, D1B
MIDA-D12040N	2.0 – 4.0	-44	-40 to +5	0.5	2.0:1	65	65	D1A, D1B
MIDA-D12080N	2.0 – 8.0	-43	-40 to +5	0.5	2.5:1	65	65	D1A, D1B
MIDA-D14080N	4.0 – 8.0	-43	-40 to +5	0.5	2.5:1	65	65	D1A, D1B
MIDA-D10518N	0.5 – 18.0	-42	-40 to +5	0.5	3.5:1	65	65	D1A, D1B
MIDA-D12018N	2.0 – 18.0	-42	-40 to +5	0.5	3.5:1	65	65	D1A, D1B
MIDA-D16012N	6.0 – 12.0	-43	-40 to +5	0.5	3.0:1	65	65	D1A, D1B
MIDA-D18012N	8.0 – 12.0	-43	-40 to +5	0.5	3.0:1	65	65	D1A, D1B
MIDA-D16018N	6.0 – 18.0	-42	-40 to +5	0.5	3.5:1	65	65	D1A, D1B
MIDA-D18018N	8.0 – 18.0	-42	-40 to +5	0.5	3.5:1	65	65	D1A, D1B
MIDA-D11218N	12.0--18.0	-42	-40 to +5	0.5	3.5:1	65	65	D1A, D1B
-54 to +85 °C								
MIDA-D10520T	0.5 – 2.0	-44	-40 to +5	0.5	2.0:1	65	65	D1A, D1B
MIDA-D12040T	2.0 – 4.0	-44	-40 to +5	0.5	2.0:1	65	65	D1A, D1B
MIDA-D12080T	2.0 – 8.0	-43	-40 to +5	0.6	2.5:1	65	65	D1A, D1B
MIDA-D14080T	4.0 – 8.0	-43	-40 to +5	0.5	2.5:1	65	65	D1A, D1B
MIDA-D10518T	0.5 – 18.0	-42	-40 to +5	0.7	3.5:1	65	65	D1A, D1B
MIDA-D12018T	2.0 – 18.0	-42	-40 to +5	0.7	3.5:1	65	65	D1A, D1B
MIDA-D16012T	6.0 – 12.0	-43	-40 to +5	0.5	3.0:1	65	65	D1A, D1B
MIDA-D18012T	8.0 – 12.0	-43	-40 to +5	0.5	3.0:1	65	65	D1A, D1B
MIDA-D16018T	6.0 – 18.0	-42	-40 to +5	0.6	3.5:1	65	65	D1A, D1B
MIDA-D18018T	8.0 – 18.0	-42	-40 to +5	0.6	3.5:1	65	65	D1A, D1B
MIDA-D11218T	12.0 --18.0	-42	-40 to +5	0.5	3.5:1	65	65	D1A, D1B
General Specifications: Rise Time: 23ns (20ns Typ) Recovery Time: 500 (@ + 5dBm) Propagation Delay Time: <30ns Logging Slope: 50mV/dB Nominal CW Input (No Damage): +17 dBm								

**MII D20000 Series 0.5 – 18GHz
Broad Band Detector Log Video Amplifiers
(DLVAs)**

DLVA Specifications – DC Coupled

- Features: ■ Superior Log Linearity
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 ■ Low Current Consumption



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MIDA-D20000 Series						DC Power Consumption (No RF Signal)		Case Option
MII Model Number	Frequency Range (GHz) Min.	TSS (dBm)	Log Range (dBm)	Linearity (+/- Db) Any Freq.	VSWR (@ - 23dBm) Max.	+12V to +15V (mA) Max.	-12V to -15V (mA) Max.	
+25 °C								
MIDA-D20560N	0.5 – 6.0	-42	-40 to +20	1.0	2.5:1	100	100	D2
MIDA-D22040N	2.0 – 4.0	-42	-40 to +20	1.0	2.5:1	100	100	D2
MIDA-D22080N	2.0 – 8.0	-42	-40 to +20	1.0	2.5:1	130	100	D2
MIDA-D24080N	4.0 – 8.0	-42	-40 to +20	1.0	2.5:1	130	100	D2
MIDA-D26012N	6.0 – 12.0	-42	-40 to +20	1.0	2.5:1	130	100	D2
MIDA-D22018N	2.0 – 18.0	-42	-40 to +20	1.2	2.5:1	200	100	D2
MIDA-D26018N	6.0 – 18.0	-42	-40 to +20	1.0	2.5:1	130	100	D2
MIDA-D28018N	8.0 – 18.0	-42	-40 to +20	1.0	2.5:1	130	100	D2
MIDA-D21218N	12.0 – 18.0	-42	-40 to +20	1.0	2.5:1	130	100	D2
-54 °C to +85 °C								
MIDA-D20560T	0.5 – 6.0	-42	-40 to +20	1.2	2.5:1	100	100	D2
MIDA-D22040T	2.0 – 4.0	-42	-40 to +20	1.0	2.5:1	100	100	D2
MIDA-D22080T	2.0 – 8.0	-42	-40 to +20	1.1	2.5:1	130	100	D2
MIDA-D24080T	4.0 – 8.0	-42	-40 to +20	1.0	2.5:1	130	100	D2
MIDA-D26012T	6.0 – 12.0	-42	-40 to +20	1.1	2.5:1	130	100	D2
MIDA-D22018T	2.0 – 18.0	-42	-40 to +20	1.5	2.5:1	200	100	D2
MIDA-D26018T	6.0 – 18.0	-42	-40 to +20	1.2	2.5:1	130	100	D2
MIDA-D28018T	8.0 – 18.0	-42	-40 to +20	1.1	2.5:1	130	100	D2
MIDA-D21218T	12.0 – 18.0	-42	-40 to +20	1.1	2.5:1	130	100	D2

General Specifications: Rise Time: 23ns (20ns Typ.)
 Propagation Delay Time: <30ns
 Logging Slope: 50mV/dB Nominal
 CW Input (No Damage): +20 dBm
 Recovery Time: 500ns for PW ≤ 1us
 (@ +15 dBm): 1us for PW > 1us

**MII D30000 Series 0.5 – 18GHz
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DLVA Specifications – DC Coupled

- Features: ■ Superior Log Linearity
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 ■ Low Current Consumption



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MIDA-D30000 Series (Extended Range)						DC Power Consumption (No RF Signal)		Case Option
MII Model Number	Frequency Range (GHz) Min.	TSS (dBm)	Log Range (dBm)	Linearity (+/- Db) Any Freq.	VSWR Max.	+12V to +15V (mA) Max.	-12V to -15V (mA) Max.	
+25 °C								
MIDA-D35020N	0.5 – 2.0	-75	-72 to +5	1.0	2.0:1	260	150	D3A, D3E
MIDA-D32060N	2.0 – 6.0	-75	-72 to +5	1.0	2.0:1	260	150	D3B, D3F
MIDA-D34080N	4.0 – 8.0	-74	-72 to +5	1.1	2.0:1	280	150	D3B, D3F
MIDA-D32018N	2.0 – 18.0	-68	-65 to +5	1.2	2.5:1	400	150	D3C, D3G
MIDA-D36012N	6.0 – 12.0	-73	-70 to +5	1.0	2.0:1	300	150	D3C, D3G
MIDA-D36018N	6.0 – 18.0	-72	-70 to +5	1.1	2.3:1	300	150	D3C, D3G
MIDA-D38018N	8.0 – 18.0	-72	-70 to +5	1.0	2.2:1	300	150	D3C, D3G
MIDA-D31218N	12.0 – 18.0	-72	-70 to +5	1.0	2.2:1	300	150	D3C, D3G
-54 °C to +85 °C								
MIDA-D30520T	0.5 – 2.0	-75	-72 to +5	1.2	2.0:1	260	150	D3A, D3E
MIDA-D32060T	2.0 – 6.0	-75	-72 to +5	1.2	2.0:1	260	150	D3B, D3F
MIDA-D34080T	4.0 – 8.0	-74	-72 to +5	1.2	2.0:1	280	150	D3B, D3F
MIDA-D32018T	2.0 – 18.0	-67	-65 to +5	1.5	2.5:1	400	150	D3C, D3G
MIDA-D36012T	6.0 – 12.0	-73	-70 to +5	1.2	2.0:1	300	150	D3C, D3G
MIDA-D36018T	6.0 – 18.0	-72	-70 to +5	1.3	2.3:1	300	150	D3C, D3G
MIDA-D38018T	8.0 – 18.0	-72	-70 to +5	1.2	2.2:1	300	150	D3C, D3G
MIDA-D31218T	12.0 – 18.0	-72	-70 to +5	1.2	2.2:1	300	150	D3C, D3G

General Specifications: Rise Time: 23ns (20ns Typ.)
 Propagation Delay Time: <30ns
 Logging Slope: 50mV/dB Nominal
 CW Input (No Damage): +20 dBm
 Recovery Time: 500ns for PW ≤ 1us
 (@ +5 dBm): 1us for PW > 1us