

MII A10000 Series 0.5 – 18GHz  
 Broad Band Detector Log Video Amplifiers  
 (DLVAs)



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

DLVA Specifications – CW Immunity

- Features: ■ CW Immunity  
 ■ High Duty Cycle Up To 70%  
 ■ Short Warm-Up Time

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MIDA-A10000 Series						DC Power Consumption (No RF Signal)		
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.	Case Option  SKC –
+25 °C								
MIDA-A10520N	0.5 – 2.0	-46	-43 to 0	0.5	2.5:1	100	100	A1
MIDA-A12040N	2.0 – 4.0	-46	-43 to 0	0.5	2.5:1	100	100	A1
MIDA-A12060N	2.0 – 6.0	-45	-43 to 0	0.5	2.5:1	100	100	A1
MIDA-A14080N	4.0 – 8.0	-45	-43 to 0	0.5	2.5:1	100	100	A1
MIDA-A16012N	6.0 – 12.0	-44	-42 to 0	0.5	3.0:1	100	100	A1
MIDA-A18012N	8.0 – 12.0	-44	-42 to 0	0.5	3.0:1	100	100	A1
MIDA-A12018N	2.0 – 18.0	-43	-41 to 0	0.5	4.0:1	100	100	A1
MIDA-A16018N	6.0 – 18.0	-44	-42 to 0	0.5	3.5:1	100	100	A1
MIDA-A18018N	8.0 – 18.0	-44	-42 to 0	0.5	3.5:1	100	100	A1
MIDA-A11218N	12.0 – 18.0	-44	-42 to 0	0.5	3.0:1	100	100	A1
-54 to +85 °C								
MIDA-A10520T	0.5 – 2.0	-45	-42 to 0	0.5	2.5:1	100	100	A1
MIDA-A12040T	2.0 – 4.0	-45	-42 to 0	0.5	2.5:1	100	100	A1
MIDA-A12060T	2.0 – 6.0	-44	-42 to 0	0.6	2.5:1	100	100	A1
MIDA-A14080T	4.0 – 8.0	-44	-42 to 0	0.6	2.5:1	100	100	A1
MIDA-A16012T	6.0 – 12.0	-43	-41 to 0	0.6	3.0:1	100	100	A1
MIDA-A18012T	8.0 – 12.0	-43	-41 to 0	0.5	3.0:1	100	100	A1
MIDA-A12018T	2.0 – 18.0	-42	-40 to 0	0.7	4.0:1	100	100	A1
MIDA-A16018T	6.0 – 18.0	-43	-41 to 0	0.6	3.5:1	100	100	A1
MIDA-A18018T	8.0 – 18.0	-43	-41 to 0	0.6	3.5:1	100	100	A1
MIDA-A11218T	12.0 – 18.0	-43	-41 to 0	0.5	3.0:1	100	100	A1
General Specifications: Rise Time: 35ns Recovery Time: 500 Propagation Delay Time: <30ns Logging Slope: 75mV/dB Nominal CW Immunity: No Degradation Up To-20 dBm								

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MIDA-A20000 Series (Extended Range)						DC Power Consumption (No RF Signal)		
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.	Case Option SKC -
<b>+25 °C</b>								
MIDA-A20250N	0.5 – 2.0	-68	-65 to +5	1.0	2.0:1	230	150	A2A
MIDA-A22060N	2.0 – 6.0	-68	-65 to +5	1.0	2.0:1	250	150	A2A
MIDA-A24080N	4.0 – 8.0	-68	-65 to +5	1.0	2.0:1	250	150	A2B
MIDA-A28012N	8.0 – 12.0	-67	-65 to +5	1.0	2.0:1	270	150	A2C
MIDA-A22018N	2.0 – 18.0	-67	-65 to +5	1.2	2.5:1	400	150	A2C
MIDA-A26018N	6.0 – 18.0	-67	-65 to +5	1.1	2.3:1	270	150	A2C
MIDA-A28018N	8.0 – 18.0	-67	-65 to +5	1.0	2.2:1	270	150	A2C
MIDA-A21218N	12.0 – 18.0	-67	-65 to +5	1.0	2.2:1	270	150	A2C
<b>-54 to +85 °C</b>								
MIDA-A20250T	0.5 – 2.0	-68	-65 to +5	1.2	2.0:1	230	150	A2A
MIDA-A22060T	2.0 – 6.0	-68	-65 to +5	1.2	2.0:1	250	150	A2A
MIDA-A24080T	4.0 – 8.0	-68	-65 to +5	1.2	2.0:1	250	150	A2B
MIDA-A28012T	8.0 – 12.0	-67	-65 to +5	1.2	2.0:1	270	150	A2C
MIDA-A22018T	2.0 – 18.0	-67	-65 to +5	1.5	2.5:1	400	150	A2C
MIDA-A26018T	6.0 – 18.0	-67	-65 to +5	1.3	2.3:1	270	150	A2C
MIDA-A28018T	8.0 – 18.0	-67	-65 to +5	1.2	2.2:1	270	150	A2C
MIDA-A21218T	12.0 – 18.0	-67	-65 to +5	1.2	2.2:1	270	150	A2C
<b>General Specifications:</b> Rise Time: 25ns Propagation Delay Time: <35ns Logging Slope: 50mV/dB Nominal CW Immunity: No Degradation Up To TSS+20 dBm Recovery Time: 500ns for PW ≤ 1us (@ +5 dBm); 1us for PW>1us								