MII S10000 Series 0.5 – 18GHz
Broad Band Successive Detector Log Video Amplifiers (SDLVAs)

Successive DLVA Specifications

Features:
- Fast Rise And Fall Time
- Short Delay Time
- Excellent Tangential Sensitivity
- Low Baseline Noise

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

PHONE: 916-256-3500
FAX: 916-256-3501
www.microwaveindustries.biz

MIDA-S10000 Series		Video Output			RF Port			DC Power Consumption (No RF Signal)		
MII Model Number	Frequency Range (GHz) Min.	TSS (dBm)	Log Range (dBm)	Linearity (+/ – dB) Any Freq.	Frequency Flatness (+/ – dB) (Small Signal)	VSWR I/O Max.	Psat (dBm) Typ.	+12V to +15V (mA) Max.	– 12V to –15V (mA) Max.	Case Option SKC–
+25 ºC										
MIDA-S10520N	0.5 – 2.0	-50	-40 to +5	1.5	1.5	2.0:1/2.0:1	+5	60	30	S1A
MIDA-S12040N	2.0 – 4.0	-50	-40 to +5	1.5	1.5	2.0:1/2.0:1	+5	60	30	S1A
MIDA-S12060N	2.0 – 6.0	-48	-40 to +5	1.5	1.5	2.2:1/2.2:1	+5	60	30	S1A
MIDA-S14080N	4.0 – 8.0	-48	-40 to +5	1.5	1.5	2.2:1/2.2:1	+7	80	30	S1B
MIDA-S18012N	8.0 – 12.0	-46	-38 to +8	1.5	1.5	2.2:1/2.2:1	+7	80	30	S1C
MIDA-S12018N	2.0 – 18.0	-44	-36 to +9	2.0	3.5	2.5:1/2.5:1	+6	300	40	S1C
MIDA-S16018N	6.0 – 18.0	-45	-37 to +8	1.5	2.5	2.3:1/2.3:1	+7	120	30	S1C
MIDA-S11218N	12.0 – 18.0	-45	- 37 to +8	1.5	2.0	2.3:1/2.3:1	+7	120	30	S1C
25 ºC to +75 ºC										
MIDA-S10520T	0.5 – 2.0	-50	-40 to +5	2.0	2.0	2.0:1/2.0:1	+5	60	30	S1A
MIDA-S12040T	2.0 – 4.0	-50	-40 to +5	2.0	2.0	2.0:1/2.0:1	+5	60	30	S1A
MIDA-S12060T	2.0 – 6.0	-48	-40 to +5	2.0	2.0	2.2:1/2.2:1	+5	60	30	S1A
MIDA-S14080T	4.0 – 8.0	-48	-40 to +5	2.0	2.0	2.2:1/2.2:1	+7	80	30	S1B
MIDA-S18012T	8.0 – 12.0	-46	-38 to +8	2.0	2.0	2.2:1/2.2:1	+7	80	30	S1C
MIDA-S12018T	2.0 – 18.0	-44	-36 to +9	2.5	3.5	2.5:1/2.5:1	+6	300	40	S1C
MIDA-S16018T	6.0 – 18.0	-45	-37 to +8	2.0	2.0	2.3:1/2.3:1	+7	120	30	S1C
MIDA-S11218T	12.0 – 18.0	-45	- 37 to +8	2.0	2.5	2.3:1/2.3:1	+7	120	30	S1C

General Specifications:
- Rise Time: 10ns (5ns Typ.)
- Recovery Time: 40ns (25ns Typ.)
- Delay Time: 10ns (5ns Typ.)
- Log Space: 25mB/dB Nominal
- Variation Of Delay Time Over Input Power: +/ -1ns
- Pulse Range: 30ns to CW
- Video Load: 50Ω Or 100Ω

MII S20000 Series 0.5 – 18GHz
Broad Band Successive Detector Log Video Amplifiers (SDLVAs)

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5009 Windplay Drive Suite 4
El Dorado Hills, CA 95762

PHONE: 916-256-3500
FAX: 916-256-3501
www.microwaveindustries.biz

Successive DLVA Specifications

Features:
- Fast Rise And Fall Time
- Short Delay Time
- Excellent Tangential Sensitivity
- Low Baseline Noise

MIDA-S20000 Series (Extended Range)		Video Output			RF Port			DC Power Consumption (No RF Signal)		
MII Model Number	Frequency Range (GHz) Min.	TSS (dBm)	Log Range (dBm)	Linearity (+/ – dB) Any Freq.	Frequency Flatness (+/ – dB) (Small Signal)	VSWR I/O Max.	Psat (dBm) Typ.	+12V to +15V (mA) Max.	– 12V to –15V (mA) Max.	Case Option SKC–
+25 ºC										
MIDA-S20520N	0.5 – 2.0	-75	-67 to +3	2.0	2.0	2.0:1/2.0:1	+5	100	30	S1A
MIDA-S22040N	2.0 – 4.0	-75	-67 to +3	2.0	2.0	2.0:1/2.0:1	+5	100	30	S1A
MIDA-S22060N	2.0 – 6.0	-73	-65 to -5	2.0	2.0	2.2:1/2.2:1	+5	120	30	S1B
MIDA-S24080N	4.0 – 8.0	-70	-63 to -3	2.0	2.0	2.2:1/2.2:1	+7	150	30	S1C
MIDA-S28012N	8.0 – 12.0	-69	-62 to -2	2.0	2.0	2.2:1/2.2:1	+7	150	30	S1C
MIDA-S22018N	2.0 – 18.0	-65	-60 to 0	3.0	5.0	2.5:1/2.5:1	+6	500	40	S1D
MIDA-S26018N	6.0 – 18.0	-67	-60 to 0	2.0	3.0	2.3:1/2.3:1	+7	200	30	S1D
MIDA-S21218N	12.0 – 18.0	-67	-60 to 0	2.0	2.5	2.3:1/2.3:1	+7	200	30	S1D
25 ºC to +75 ºC										
MIDA-S20520T	0.5 – 2.0	-74	-67 to +3	2.5	2.5	2.0:1/2.0:1	+5	100	30	S1A
MIDA-S22040T	2.0 – 4.0	-74	-67 to +3	2.5	2.5	2.0:1/2.0:1	+5	100	30	S1A
MIDA-S22060T	2.0 – 6.0	-72	-65 to -5	2.5	2.5	2.2:1/2.2:1	+5	120	30	S1b
MIDA-S24080T	4.0 – 8.0	-70	-63 to -3	2.5	2.5	2.2:1/2.2:1	+7	150	30	S1C
MIDA-S28012T	8.0 – 12.0	-69	-62 to -2	2.5	2.5	2.2:1/2.2:1	+7	150	30	S1C
MIDA-S22018T	2.0 – 18.0	-65	-60 to 0	4.0	5.5	2.5:1/2.5:1	+6	500	40	S1D
MIDA-S26018T	6.0 – 18.0	-67	-60 to 0	2.5	3.5	2.3:1/2.3:1	+7	200	30	S1D
MIDA-S21218T	12.0 – 18.0	-67	-60 to 0	2.5	3.0	2.3:1/2.3:1	+7	200	30	S1D

General Specifications:
- Rise Time: 10ns (5ns Typ.)
- Variation Of Delay Time Over Input Power: +/ -1ns
- Recovery Time: 40ns (25ns Typ.)
- Pulse Range: 30ns to CW
- Delay Time: 10ns (5ns Typ.)
- Log Slope: 15mV/dB Nominal
- Video Load: 50Ω Or 100Ω