



○ Features & Benefits

- Ultra-Wide VHF Distribution Amplifier 0.5 to 300 MHz
- AM, Shortwave and VHF TV Coverage
- Push-Pull Hybrid Amplifier Design
- Lightning and Surge Protected

The DA-33 is a professional quality, wideband distribution amplifier. This amplifier is designed for a variety of applications, including signal level meter preamplifier for making FCC required signal leakage measurements, sub-band return amplifier and special purpose amplifier for use aboard ships to provide coverage of the AM, shortwave, and communication bands. The DA-33 amplifies signals in the 0.5 to 300 MHz frequency range, has 36 dB of gain and 18 dB gain control range. This amplifier is housed in an aluminum case and operates on standard 117 VAC power.

○ Specifications

RF

Frequency Range: 0.5-300 MHz
 Channel Loading: 22
 Flatness: ± 1.00 dB
 Gain: 36 dB
 Noise Figure (a): 5.5 dB
 Output Level - Max: +50 dBmV
 Gain Control Range: 18 dB
 Slope - Fixed: NA
 Composite Triple Beat - CTB (b): -68 dB
 Cross Modulation - XMOD (b): -61 dB
 Composite Second Order - CSO (b): -72 dB
 Hum Modulation: -60 dB
 Impedance - All Ports: 75 Ω
 Return Loss
 Input: 16 dB
 Output: 12 dB

General

Power Requirements
 Voltage: 117, $\pm 10\%$ VAC
 Frequency: 60 Hz
 Temperature Range: 0 to +50 $^{\circ}\text{C}$

Mechanical

Dimensions (LxWxD):
 8.75 x 5.25 x 3.75 in
 222 x 133 x 95 mm
 Weight: 4.0 lbs. (1.82 kg)

Controls (Top Panel)

Gain: Control

Indicators

Power ON: Neon Bulb

Connectors (Top Panel)

RF Input: Type "F", female
 RF Output(s): Type "F", female

Notes

- (a) Measured at full gain with 0 dB slope.
 (b) At rated output capability and channel loading.

○ Ordering Information

Model	Stock No.	Description
DA-33	4675	Wideband Amplifier 0.5-300MHz

MVB & MUVB Series

Masterline® MATV Distribution Amplifiers



MUVB -35



MUVB -45



MUVB -56



MVB-56



MVB-62

Distribution

The Masterline® Series of distribution amplifiers are designed for MATV off-air applications. These amplifiers are used for off-air VHF, FM and UHF applications, providing high output and low noise amplification. The Masterline® Series products are available with a choice of gain levels, bandwidths, and features to fit almost any system, i.e. number of outlets serviced by the system, the array of off-air channels present, and the signal strength of those signals. These amplifiers are available with a variety of features on selected models, including automatic level control, separate antenna inputs for specific TV bands and FM traps (stop filters). The Masterline® Series uses split band amplification, combined with low noise input circuitry, to provide a wide dynamic range and exceptional output capability. All of the Masterline® Series products are UL and CSA listed and have power supply, lightning and surge protection, thereby providing years of trouble-free service.

○ Features & Benefits

- VHF and UHF/VHF Models
- High Output Capability
- Models with Switchable FM Traps for Strong Local FM Signals
- AC Convenience Outlet Provided on Most Models
- Lightning and Surge Protected
- UL and CSA Listed

○ Specifications

RF	MUVB-35	MUVB -45	MVB-56	MUVB-56	MVB-62
Frequency Range (MHz)					
VHF LB (2-6):	54-88	54-88	54-88	54-88	54-88
FM:	88-108	88-108	88-108	88-108	88-108
VHF HB (7-13):	174-216	174-216	174-216	174-216	174-216
UHF (14-69):	470-890	470-890	-	470-890	-
Flatness (dB)					
VHF LB (2-6) & FM:	±0.05	±0.05	±0.50	±0.50	±0.50
VHF HB (7-13):	±0.75	±0.75	±0.75	±0.75	±0.75
UHF (14-69):	±1.5	±1.5	-	±1.5	-
Input Level - Minimum (dBmV) (a)					
VHF LB (2-6) & FM:	-7.0	-6.0	-6.5	-6.0	-7.6
VHF HB (7-13):	-6.0	-5.5	-6.7	-5.5	-6.8
UHF (14-69):	-6.8	-8.0	-	-8.0	-
Gain (dB)					
VHF LB (2-6) & FM:	36	45	47	47	55
VHF HB (7-13):	35	43	47	46	55
UHF (14-69):	37	43	-	45	-
Noise Figure (dB)					
VHF LB (2-6) & FM:	6.0	7.0	5.5	6.0	6.5
VHF HB (7-13):	7.0	7.5	6.5	7.0	6.5
UHF (14-69):	6.2	5.0	-	6.2	-
Output Level - Max (dBmV) (b)					
VHF LB (2-6):	+49	+54	+56	+56	+63
VHF HB (7-13):	+49	+54	+56	+56	+63
UHF (14-69):	+49	+52	-	+56	-
Gain Control Range (dB)					
All Bands:	18	18	18	18	18
Impedance - All Ports (Ohm):	75	75	75	75	75

Power Requirements

Voltage (VAC):	117, ±10%	117, ±10%	117, ±10%	117, ±10%	117, ±10%
Frequency (Hz):	60	60	60	60	60
AC Convenience Outlet:	NA	YES	YES	YES	YES
Temperature Range (°C):	0 to +50	0 to +50	0 to +50	0 to +50	0 to +50

MVB & MUVB Series

Masterline® MATV Distribution Amplifiers

○ Specifications - continued

Mechanical	MUVB-35	MUVB-45	MVB-56	MUVB-56	MVB-62
Dimensions (LxWxD): (in.) (mm)	11.88x5.22x1.75 302x133x44	19x5.22x2.56 483x133x65	19x3.47x2.63 483x88x67	19x5.22x2.63 483x133x67	19x5.22x2.63 483x133x67
Weight: (lbs) (kg)	3.25 1.48	7.00 3.18	7.00 3.18	7.00 3.18	7.00 3.18

Controls (Top Panel)

Gain					
LB VHF/FM/MB VHF:	Control	Control	Control	Control	Control
HB VHF:	Control	Control	Control	Control	Control
UHF:	Control	Control	-	Control	-
FM Trap IN/OUT:	Slide Switch	Slide Switch	Slide Switch	Slide Switch	Slide Switch
Separate/Combined LB/HB VHF:	-	Slide Switch	-	-	Slide Switch
Separate/Combined U/V:	Slide Switch	Slide Switch	-	Slide Switch	-
Automatic Level Control (ALC)					
LB VHF/FM/MB VHF:	-	-	-	Slide Switch	Slide Switch
HB VHF:	-	-	-	Slide Switch	Slide Switch
Combined VHF:	-	-	Slide Switch	-	-
UHF:	-	-	-	Slide Switch	-
UHF Tilt:	-	-	-	Slide Switch	-

Indicators

Power ON:	-	Neon Bulb	Neon Bulb	Neon Bulb	Neon Bulb
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Connectors (Top Panel)

LB VHF/FM VHF Input:	-	-	Type "F", female	Type "F", female	Type "F", female
HB VHF Input:	-	-	Type "F", female	Type "F", female	Type "F", female
Combined VHF Input:	-	-	Type "F", female	Type "F", female	Type "F", female
Combined VHF/UHF Input:	Type "F", female	Type "F", female	-	Type "F", female	-
RF Output:	Type "F", female	Type "F", female	Type "F", female	Type "F", female	Type "F", female

Notes

(a) For TASO Grade 1 picture (*46dB CNR).

(b) Channel loading: 3 channels LB, 4 channel HB, 3 Channels UHF.

○ Ordering Information

Model	Stock No.	Description
MVB-62	1455	Broadband VHF/FM Amplifier 55 dB, 54-88/88-108/174-216 MHz
MVB-56	1447	Broadband VHF/FM Amplifier 47 dB, 54-88/88-108/174-216 MHz
MUVB-56	1453	Broadband VHF/FM/UHF Amplifier 47 dB, 54-88/88-108/174-216/470-806 MHz
MUVB-45	1454	Broadband VHF/FM/UHF Amplifier 45 dB, 54-88/88-108/174-216/470-806 MHz
MUVB-35	1451	Broadband VHF/FM/UHF Amplifier 36 dB, 54-88/88-108/174-216/470-806 MHz

ZCM Series

Distribution Amplifiers



ZCM-101



ZCM-201

○ Features & Benefits

- 50-550 Mhz Bandwidth
- 10 and 20 dB Gain Models
- Low Noise Figure
- Manual Tilt Control (ZCM-201)
- Compact Housing

The ZCM -101/201 distribution amplifiers are designed for special purpose applications in the MATV, SMATV, Private and Wireless Cable markets. These low noise amplifiers cover the frequency range of 50 to 550 MHz and provide either 10 or 20 dB of gain depending on model.

○ Specifications

RF	ZCM-101	ZCM-201
Frequency Range (MHz):	50-550	50-550
Gain (dB):	10	20
Noise Figure (dB):	3.5	3.5
Impedance - All Ports (Ohm):	75	75
General		
Power Requirements		
Voltage (VAC):	117, ±10%	117, ±10%
Frequency (Hz):	60	60
Power (W):	1.2	1.4
Temperature Range (°C):	0 to +50	0 to +50
Mechanical		
Dimensions (LxWxD):		
(in)	4.88 x 2.00 x 2.50	4.88 x 2.00 x 2.50
(mm)	124 x 51x64	124 x 51 x 64
Weight:		
(lbs)	0.50	0.50
(kg)	0.23	0.23
Control		
Tilt:	-	Var. Control
Connectors (Top Panel)		
RF Input:	Type "F", female	Type "F", female
RF Output:	Type "F", female	Type "F", female

○ Ordering Information

Model	Stock No.	Description
ZCM-201	1472	Broadband VHF/CATV Distribution Amplifier 20 dB, 50-550 MHz
ZCM-101	1471	Broadband VHF/CATV Distribution Amplifier 10 dB, 50-550 MHz