zenitel

DATASHEET

2320000611

SEAS 4041

Line amplifier, up to 56/64 outlets (+36/44dB) built-in modulator



Description

- Digital and Analoque
- Worldwide Marine use
- Proven and reliable technology
- Simple and easy installation
- No additional accessories in system setup
- Excellent ESD and Surge protection
- Line amplifier for worldwide marine use
- Advanced ALC (Automatic Level Control) with LO-HI switch
- Test points on input and output
- Sturdy die-cast housing conforming to protection class IP54
- Multistandard modulator built in for PAL, SECAM, NTSC

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Specifications

GENERAL	
Dimension (HxWxD) (mm)	(H) 265 x (W) 190 x (D) 110 mm
Housing	Aluminium Die-casting, Finishing: Black painted
Connectors	IN: 5/8”-24 NEF F-Female to 3/8”-32 UNEF F-Female Adaptor
	OUT: F-Female Connector (4 pcs)
Weight	3.5 Kg

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ELECTRICAL SPECIFICATION

RF Amplification	Push-Pull Hybrid Module	
Operation Gain IN-OUT w/ RA-30	100 KHz .	16.5 dB min.
Operation Gain IN-OUT	5 MHz	22.0 dB min.
Operation Gain IN-OUT	27 MHz	27.0 dB min.
Operation Gain IN-OUT	47~862 MHz	36.0 dB min. w
Operation Gain IN-OUT	47~862 MHz	42.0 dB min. w
Operation Gain		44.0 dB min.
Gain Control		0~ -18.0 dB (adj.)
Slope Control (w/ MS-86/ 18)		0~ -18.0 dB (adj.)
Auto Level Control (w/ ALC-12)		+/-12.0 dB
Noice Figure	47~862 MHz	77 NTSC chs. +312 MHz digital* (97 / 102 / 94 dBu V)
Output Level (Reference)	55/ 550/ 862 MHz	0.02 dB/C max.
Composite Second Order (CSO)		60 dBc
Composite Triple Beat (CTB)		60 dBc
Cross Modulation (XMOD)		60 dBc
Return Loss	100~300 KHz	6 dB min.
(w/ Jumpers)	300 KHz~27 MHz	14 dB typ. 12 dB min.
	47~862 MHz	12 dB t
*) For digital channels at 550~862 MHz, carriers arc -10 dB lower ralative to analog channels.		

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GENERAL SPECIFICATIONS

Input & Output Test Ports	20 +/- 2 dB, F-Female
Input & Output Impedance	75 Ohm
Surge Protection	7000 V for 1.2 x 50 us
Power Supply	110-230 Vac, 50/60 Hz
Fuse (For Power Supply)	0.2 A / 250 V (230 Vac)
Power Consumption (Including Powering output to Antenna)	16 W, (25W)
AC Cord	AC Inlet Module; 1,5m cord w. Schuko
Operating Temperature	-40 to +60°C

EMC & SAFETY

EMC	EN60945:2002, EN55027-2, EN61000-3-2/3-3/4-2-4-6
Safety	EN60950, EN60601
Dieletric Strength Test**	>2M Ohm, <1m A @2120VDC
Protective Earth Connection***	<0.1 Ohm

**) Test by Hi-Pot tester.

***)Test by Voltage Meter applied between the protective earth contact of the mains plug and all accessible conductive parts.

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MODULATOR SPECIFICATIONS

Video input	
Frequency range	20 Hz - 15 kHz
Level Adjustment	1 V +/- 0.1 V/75 Ohm
Audio input	
Frequency range	20 Hz - 15 kHz
Level Adjustment	0 - 7dB
Level/impedance/deviation****	2x775 mV RMS/10 kOHM/50 kHz
RF Output	
Level adjustment	0 Hz - 20 dB
Output channels according channels charts	B/G/D/K/H/I/L/M/N/Australia
Frequency range	45-84 MHz, 170-300 MHz, 470-862 MHz
Sound subcarrier frequency	4.5 MHz, 5.5 MHz, 6.0 MHz, 6.5 MHz
Fine tuning range of video carrier frequency	+/- 2.25 MHz max. by 0.25 MHz step
Video frequency response	+/1 dB
A/V ratio	12/16 dB
Amplitude modulation depth, typical	81%
Signal/noise ratio, weighted	>/=55 dB
****) Available to set standard deviation +/- 50 kHz of sound carrier when input level 340mV-775mV in both audio inputs.	

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