

VSMA-601C

**Compact Design**

0.8"D x 2.66"W x 1.88"H

The new VSMA-601C Mini Drop Amplifier from Viewsonics is a full-featured drop amplifier in a space-saving, compact design. The VSMA601C is only half the size of prior designs while providing the features required for expanded broadband services.

VSMA-611C

**Single-sided Compact Design**

0.8"D x 3.2"W x 1.53"H

The new VSMA-611C Single-sided Mini Drop Amplifier from Viewsonics is a full-featured drop amplifier in a single-sided, easy-to-install design. The VSMA611C housing simplifies installations in drop boxes and limited access spaces and eases cable radius problems.

VSMA-601 & VSMA-611C Residential Amplifiers

The VSMA601C and VSMA611C features include 6kV combination wave surge protection on the RF input port and 6kV ring wave surge protection on RF output/remote power port. This is the highest level of surge protection available and meets the requirements of IEEE C62.41-1991 Cat. B3 and A3.

All F ports are nickel-plated, precision-machined brass with 360 style F Port inserts and meet the requirements of ANSI/SCTE 01-1996 (SCTE SP-400). All ports are hermetically sealed to withstand 30psi of pressure for 60 seconds. The zinc die cast housing is triple plated for maximum corrosion resistance, even in the harshest environment.

The VSMA601C and VSMA611C are powered by a low noise GaAs MMIC that provides consistent downstream gain over the life of the amplifier. The internal diplexer provides a full 52-1000MHz amplifier forward band and a true 5-42 MHz passive return band.

All 600C series amplifiers can be powered by our 110VAC/12VDC power adaptor directly or with an optional power inserter. The power adaptor is manufactured with PTC technology or over current protection and has 6kV surge protection on the AC input port.

Features

- Nickel-plated, precision-machined brass F Ports
- 6kV combination wave surge protection
- 360 style F Port inserts
- SCTE-compliant housing and ports
- Triple-plated corrosion protection
- Improved diplexer for increased band isolation
- Industry-leading five-year warranty
- PTC protected power adapter
- LED Power Indicator Light

VSMA-601C & SVSMA-611C

Model:	VSMA-601C	VSMA-611C
Number of Output Ports	1 Port	1 Port
Surge Protection	<i>Combination Wave, 6kV/3kA per IEEE C62.41-1991 Cat B3 on all RF ports except remote powering port which has ring wave, 6kV/200A per IEEE C62.41-1991 Cat. A3</i>	
Mechanical F-Port Seal (psi)	30	30
Power Consumption (W)	2	2
Rated Operating Temperature (°F)	-40 to 160	-40 to 160
Housing Dimensions (D" x W" x H") (nom.)	0.8 x 2.6 x 1.9	0.8 x 3.2 x 1.53
Weight (oz) (nom.)	7.0	6.7
Forward Path Specifications		
Pass Band (MHz)	52-1000	52-1000
Gain (Input to Output) (dB) (typ)	+15.0	+15.0
Flatness (dB)	+/-0.50	+/-0.50
Return Loss (dB) (min)	20	20
Noise Figure (dB) (max)	3.5	3.5
Channel Loading (NTSC)	79 analog and 38 digital	79 analog and 38 digital
Reference Input Level (dBmV)	10	10
Composite Triple Beat (dBc)	<-75	<-75
Composite Second Order (dBc)	<-62	<-62
Cross Modulation (dBc)	<-75	<-75
Hum Modulation (dBc)	<-80	<-80
Isolation		
Input to DC Port (dB) (min)	55	55
Output to Output 5-15 MHz (dB)	N/A	N/A
Output to Output 15-40 MHz (dB)	N/A	N/A
Output to Output 52-1000 MHz (dB)	N/A	N/A
Group Delay (3.58 MHz span)		
Ch 2-5 (ns)	<15	<15
Ch 5 & up (ns)	<5	<5
RFI Shielding (dB)	≥120	≥120
Reverse Path Specifications		
Pass Band (MHz)	5-42	5-42
Return Path Insertion Loss (dB) (typ)	-0.8	-0.8
Flatness (dB)	+/-0.5	+/-0.5
Return Loss (dB) (min)	20	20
Group Delay (1.5 MHz span)		
5-7 & 40-42 MHz (ns)	<20	<20
7-40 MHz (ns)	<10	<10