




| PRODUCT FAMILY | PRODUCT MODEL |
|---|---|
| DH AND HOME AMPLIFIERS | HOME AMPLIFIERS |
| | FEATURES |
|  | <ul style="list-style-type: none"> >> Extended frequency range 5-65/85-1218 MHz >> Amplification 4x4dB >> Outstanding RF performance >> 4 outputs, all ports F female >> Power supply 12 VDC included >> ABS plastic Housing included |

FORWARD PATH SPECIFICATIONS

| | | |
|------------------------|--------------------------------------|---------------------------------------|
| Frequency range | | 85 – 1218 MHz |
| Nominal Gain | Port 1 Port 2 Port 3 Port 4 | 4.0 dB 4.0 dB 4.0 dB 4.0 dB |
| Tolerance Ripple/Error | | +/- 1 dB ⁽¹⁾ |
| Noise Figure | | ≤ 6.0 dB |
| Channel loading | CSO CTB | ≤ -60 dBc ⁽²⁾ ≤ -60 dBc |

RETURN LOSS (dB, Min.) – All Ports

| | |
|-----------------|-------------------|
| Frequency (MHz) | |
| 85 - 1218 | 18 ⁽³⁾ |

ISOLATION (dB, Min.) – PORT to PORT

| | |
|-------------|----|
| 85 – 1006 | 27 |
| 1006 – 1218 | 23 |

ISOLATION (dB, Min.) – OUTPUTS to RF IN

| | |
|-----------|----|
| 85 - 1218 | 26 |
|-----------|----|

GROUP DELAY

| | |
|------------|------------------------|
| 85 – 120 | ≤ 20 ns ⁽⁴⁾ |
| 120 – 1218 | ≤ 10 ns ⁽⁴⁾ |

REVERSE PATH SPECIFICATIONS

| | | |
|------------------------|--|--|
| Frequency range | | 5 – 65 MHz |
| Nominal Gain | Port 1 Port 2 Port 3 Port 4 | 1.0 dB 1.0 dB 1.0 dB 1.0 dB |
| Tolerance Ripple/Error | | +/- 1 dB |
| Noise Figure | | ≤ 14.0 dB |
| Intermodulation | 2 nd order 3 rd order | ≤ -60 dB ⁽⁵⁾ ≤ -50 dB ⁽⁶⁾ |
| Maximum input level | | 116 dBμV ⁽⁷⁾ |

RETURN LOSS (dB, Min.) – All Ports

| | |
|-----------------|-------------------|
| Frequency (MHz) | |
| 5 - 65 | 18 ⁽³⁾ |

ISOLATION (dB, Min.) – PORT to PORT

| | |
|---------|----|
| 5 - 10 | 26 |
| 10 - 65 | 30 |

ISOLATION (dB, Min.) – RF IN to OUTPUTS

| | |
|--------|----|
| 5 - 65 | 26 |
|--------|----|


GROUP DELAY

| | |
|---------|------------------------|
| 5 – 10 | ≤ 30 ns ⁽⁸⁾ |
| 10 – 65 | ≤ 20 ns ⁽⁸⁾ |

GENERAL SPECIFICATIONS

| | |
|---------------------------|--|
| Nominal impedance | 75 Ohm |
| Supply voltage | 12 VDC, 270 mA |
| Input / Output connectors | F female |
| Housing | Zinc alloy / ABS plastic |
| Dimensions h x w x h | 100 x 85 x 26 mm 125 x 90.4 x 30 mm |
| Operation temperature | 0 ... +40°C |
| Class of enclosure | IP20 |
| EMC | IEC60728-2 |



| | | |
|---|---|---|
| Screening effectiveness (dB, Min.) 5 - 30 30 - 300 300 - 470 470 - 950 950 - 1218 | Exceeds Class A 85 85 80 75 55 |  <p>The OV-4444 is an active splitter enabling downstream traffic up to 1.2 GHz with a 65/85 MHz split band.</p> <p>This allows operators to use the new DOCSIS 3.1 downstream spectrum with their customer enabling higher throughput and more efficient bandwidth use.</p> |
| Power supply (switch mode AC/DC) | | |
| Input | 110 – 240 VAC 50 Hz | |
| Output | 12 VDC 500 mA | |
| Power consumption | ≤ 4.0 W | |
| Connector | 3.5 mm DC plug | |
| Galvanic isolation | 2120 VDC | |
| Inner conductor input to Inner conductor output | ≤ 0.7 mA ⁽⁹⁾ | |
| Galvanic isolation | 230 Vac | |
| Inner conductor input to Inner conductor output | ≤ 8.0 mA RMS ⁽⁹⁾ | |
| Surge immunity | | |
| On all ports | 1 kV, 1.2/50 µsec ⁽¹⁰⁾ | |

Notes

- (1) Max. value between 5 - 1006 MHz and typical value between 1006 - 1218 MHz
- (2) CENELEC 42 ch. @ (77 + gain) dBµV on the output
- (3) F > 40 MHz -1.5 dB/oct.
- (4) Δ 4.43 MHz
- (5) 2-tone test @115 dBuV, measured on input port
- (6) 3-tone test @115dBuV, measured on input port (≤ -62 dB acc.DIN45004B 115/109/109 dBµV)
- (7) @ BER < 1*10E-8
- (8) Δ 2.0 MHz
- (9) Safety: IEC 60728-11§10 / EN 50083-1/A1 §9
Requirement: 2120 VDC: T ≥ 1 minute, I ≤ 0,7 mA, 230 VAC: I ≤ 8,0 mA RMS
- (10) Surge voltage according to IEC 61000-4-5, EMC (class 2, level 2) applied between the inner and outer conductor of each port.

ORDERING INFORMATION

OV-4444 4-Way amplifier, 4 x 4 dB, 65/85 MHz, 5 – 1218 MHz