



RF Amplifiers

## HOUSE CONNECTION AMPLIFIER **3DH3228-AR204**

The 3DH3228-AR204 is a 5-1218 MHz amplifier with a 204/258 MHz fix band split. It uses GaAs FET and GaAs pHEMT technology for best performance to the challenging future down- and upstream loads.

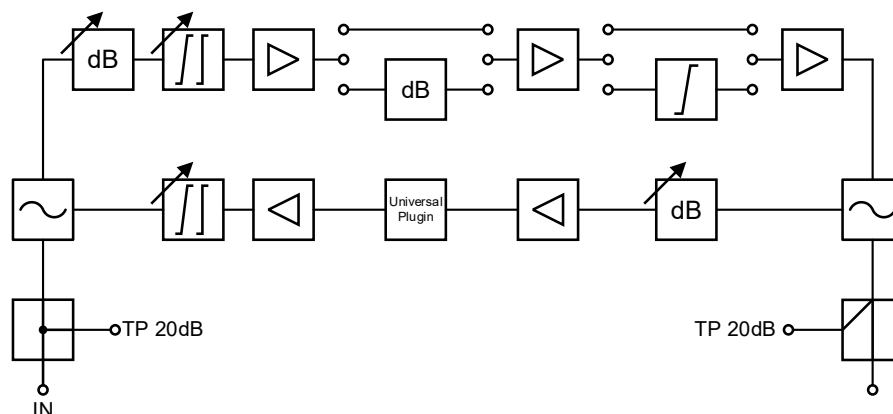
### **3DH3228-AR204 features**

- 204/258 MHz fix band split
- 32 dB Downstream gain / 28 dB Upstream gain
- GaAs FET & GaAs pHEMT technology in use for best linearity
- Low Upstream noise figure
- Attenuator & Equalizer controls using electrical step attenuators
- Downstream mid-stage gain & slope selectors
- Excellent ESD & surge protection

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## HOUSE CONNECTION AMPLIFIER / 3DH3228-AR204

| TECHNICAL SPECIFICATIONS: DOWNSTREAM <sup>(1)</sup>            |   |                               |                     |
|--|---|-------------------------------|---------------------|
| Frequency range  | 258...1218 MHz  | Mid-stage gain selection      | 32 / 26 dB          |
| Return loss  | 18 dB @ 40 MHz -1.5 dB/oct.   | Mid-stage slope selection     | 0 / 10 dB           |
| Gain   | 32 dB   | Noise Figure                  | 8 dB                |
| Input attenuator control range                                 | 0...15 dB   | CTB 34 channels (flat)        | 106 dBμV            |
| Input equalizer control range                                  | 0...15 dB   | CSO 34 channels (flat)        | 107 dBμV            |
| Flatness   | ± 0.75 dB   | Umax (120 QAM channels, flat) | 101 dBμV            |
| TECHNICAL SPECIFICATIONS: UPSTREAM <sup>(1)</sup>              |   |                               |                     |
| Frequency range  | 5...204 MHz   | Flatness                      | ± 0.75 dB           |
| Return loss  | 18 dB   | Noise Figure                  | 6 dB                |
| Gain   | 28 dB   | Test point                    | 20 dB               |
| Input attenuator control range                                 | 0...15 dB   | Mid-stage Universal Plugin    | JDA-type            |
| Output equalizer control range                                 | 0...15 dB   | Output level (DIN 45004B)     | 125 dBμV            |
| GENERAL SPECIFICATIONS <sup>(1)</sup>                          |   |                               |                     |
| Supply Voltage   | 180...255 VAC   | Test Point connector          | F-female            |
| Power Consumption  | 9 W   | EMC compatibility             | EN 60728-2          |
| Input/Output Connectors  | F-female, external  | Safety                        | EN 60728-11         |
| Operating temperature  | - 20 ° to + 55 °C   | Surge                         | 2.5 kV, IEC 60728-5 |
| Class of enclosure   | IP 54   | ESD                           | 4 kV                |
| Dimensions (h x w x h)   | 187/210 x 119/130 x 63 mm<br>(with/without brackets & F connectors) | Weight                        | 1.3 kg              |
| NOTES  |   |                               |                     |
| (1) Typical values. Please contact us for detailed conditions. |   |                               |                     |
| BLOCK DIAGRAM  |   |                               |                     |



| ORDERING INFORMATION |   |
|----------------------|---|
| 3DH3228-AR204        | Amplifier equipped with 230 VAC power supply with euro plug, 4 x F-female connectors and 0 dB Universal Plug-in |

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TELESTE CORPORATION  
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