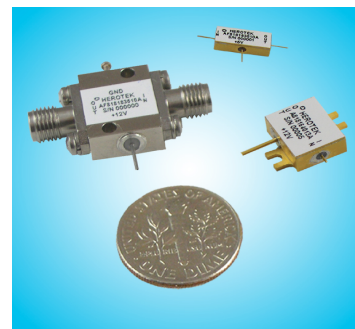


## FEATURES

- Very High Optimized Gain
- Low Power Consumption
- Low Noise Figure
- Very Flat Gain Response
- Miniature Sizes for Drop-In Assembly
- Hermetically Sealed Package for all Applications



## APPLICATIONS

- Microwave Radio & VSAT
- Test Instrumentation
- Fiber Optics
- Telecom Infrastructure
- Military & Space

## ENVIRONMENTAL RATINGS

Max Input Power.....100mW  
 Operating Temperature Range.....-55°C to +85°C  
 Storage Temperature Range.....-65°C to +125°C  
 Shock..... 50G, 11 msec  
 Vibration..... 20G, 100 to 2000 Hz

### Specifications: (@ +25°C)

| MODEL                                        | FREQ.<br>RANGE<br>(GHz) | MIN<br>GAIN<br>(dB) | MAX GAIN<br>VARIATION<br>(+/- dB) | MAX<br>N. F. (dB) | MAX<br>IN / OUT<br>VSWR | MIN P OUT @<br>1 dB COMP<br>(dBm) | NOM DC <sup>1, 2</sup><br>CURRENT @<br>+12V (mA) | OUTLINE <sup>3</sup>                   |
|----------------------------------------------|-------------------------|---------------------|-----------------------------------|-------------------|-------------------------|-----------------------------------|--------------------------------------------------|----------------------------------------|
| AF818183008A<br>AF818263008A<br>AF818343008A | 8.0 – 18.00             | 18<br>26<br>34      | ± 0.75<br>± 1.0<br>± 1.25         | 3.0               | 2:1                     | + 8<br>+ 8<br>+ 8                 | 90<br>130<br>170                                 | 0A, M2, L3<br>1D, M4, L3<br>1D, M5, L5 |
| AF818183510A<br>AF818263510A<br>AF818333510A | 8.0 – 18.00             | 18<br>26<br>33      | ± 0.75<br>± 1.0<br>± 1.25         | 3.5               | 2:1                     | + 10<br>+ 10<br>+ 10              | 90<br>130<br>170                                 | 0A, M2, L3<br>1D, M4, L3<br>1D, M5, L5 |
| A818164013A<br>A818244013A<br>A818324013A    | 8.0 – 18.00             | 16<br>24<br>32      | ± 0.75<br>± 1.0<br>± 1.25         | 4.0               | 2:1                     | + 13<br>+ 13<br>+ 13              | 90<br>130<br>170                                 | 0A, M2, L3<br>1D, M4, L3<br>1D, M5, L5 |
| A818164016A<br>A818244016A<br>A818324016A    | 8.0 – 18.00             | 16<br>24<br>32      | ± 0.75<br>± 1.0<br>± 1.25         | 4.0               | 2:1                     | + 16<br>+ 16<br>+ 16              | 120<br>160<br>200                                | 0A, M2, L3<br>1D, M4, L3<br>1D, M5, L5 |
| AF618183008A<br>AF618263008A<br>AF618343008A | 6.0 – 18.00             | 18<br>26<br>34      | ± 1.0<br>± 1.25<br>± 1.5          | 3.0               | 2:1                     | + 8<br>+ 8<br>+ 8                 | 90<br>130<br>170                                 | 0A, M2, L3<br>1D, M4, L3<br>1D, M5, L5 |
| AF618183510A<br>AF618263510A<br>AF618333510A | 6.0 – 18.00             | 18<br>26<br>33      | ± 0.75<br>± 1.0<br>± 1.25         | 3.5               | 2:1                     | + 10<br>+ 10<br>+ 10              | 90<br>130<br>170                                 | 0A, M2, L3<br>1D, M4, L3<br>1D, M5, L5 |
| A618164013A<br>A618244013A<br>A618314013A    | 6.0 – 18.00             | 16<br>24<br>31      | ± 0.75<br>± 1.0<br>± 1.25         | 4.0               | 2:1                     | + 13<br>+ 13<br>+ 13              | 90<br>130<br>170                                 | 0A, M2, L3<br>1D, M4, L3<br>1D, M5, L5 |
| A618184015A<br>A618264015A<br>A618334015A    | 6.0 – 18.00             | 18<br>26<br>33      | ± 1.0<br>± 1.25<br>± 1.5          | 4.0               | 2:1                     | + 15<br>+ 15<br>+ 15              | 100<br>140<br>180                                | 0A, M2, L3<br>1D, M4, L3<br>1D, M5, L5 |

#### NOTES:

Note 1 : DC bias voltage +5V for L3, L5 Outline.

Note 2 : Options for other bias voltages +15, +8, or +5V available for total power consumption budget.

Note 3 : Add the desired outline to the end of the model number.

For Package Outlines see Outline Drawings Page