

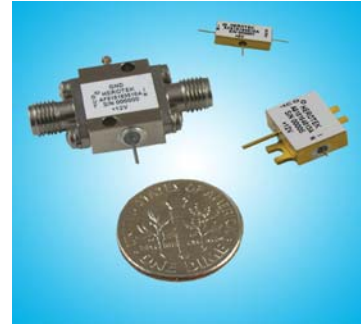


# MINIATURE WIDEBAND MICROWAVE LOW NOISE AMPLIFIERS

6.0 – 18.0 GHz

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