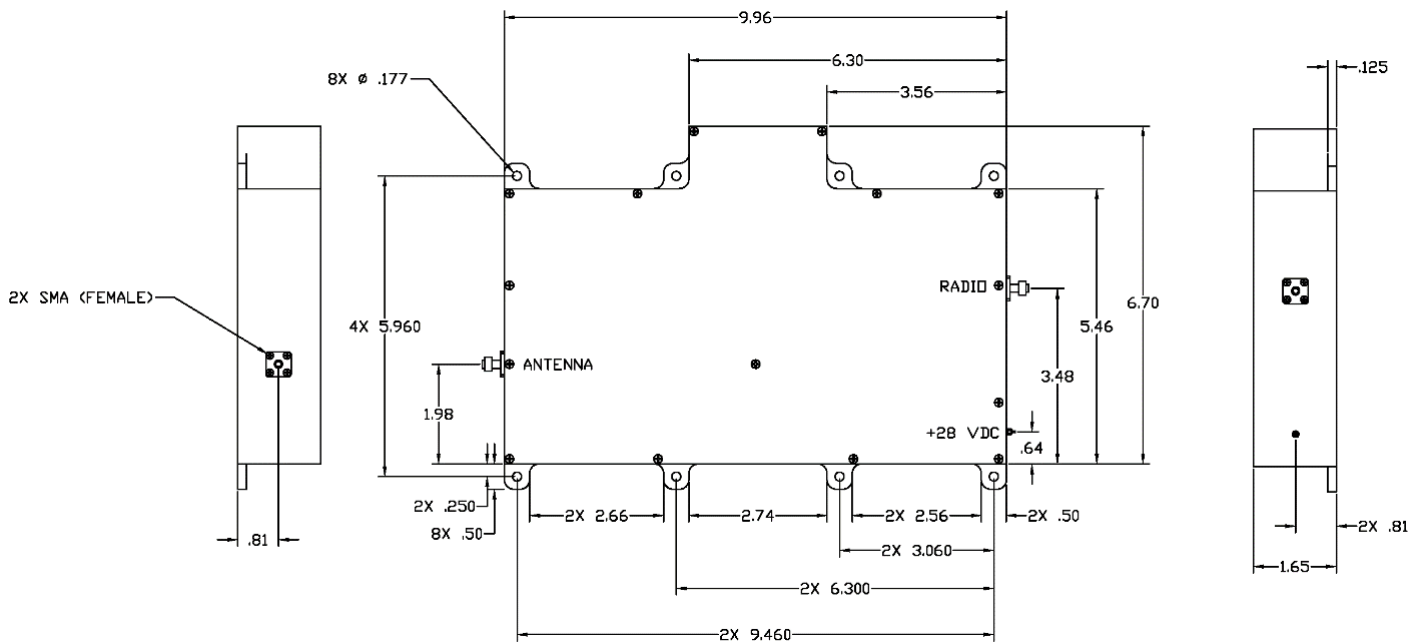




# DFP-107A-1

# UHF SATCOM Diplexer/LNA



## ELECTRICAL SPECIFICATIONS

### RECEIVE CHANNEL

VSWR, ANT INPUT, 243-270 MHz	1.5:1 max.
Rejection:	
0-225 MHz	80 dB min.
285-320 MHz	20 dB min.
340-370 MHz	45 dB min.
370-1000 MHz	85 dB min.
Gain 243-270 MHz	29.5 dB min./ 33.0 dB max.
Noise Figure	2.5 dB max.
Input@ 1dB gain compression	-18 dBm min.
Input signal protection (243-270 MHz)	1 W max.
Intercept point, third order	+ 23 dBm nom.
Reverse Isolation 0-270 MHz	50 dB min.
Preamp Current, (24-32 VDC)	0.1A max.

Measurement Tolerances:  
 LOSS: 0-to 1.5 dB, .05 dB  
 1.6 -to 40 dB, 0.1 dB  
 Above 40 dB, 2.0 dB

### TRANSMIT CHANNEL

0-230 MHz	80 dB min.
243-265 MHz	55 dB nom.
265-270 MHz	50 dB min.
291-294 MHz	1.2 dB max.
294-318.3 MHz	1.0 dB max.
375-400 MHz	55 dB min.
400-1000 MHz	80 dB min.
VSWR, 291-318.3 MHz	1.4:1 max.
Reverse VSWR, 291-318.3 MHz	1.5:1 max.

## GENERAL CHARACTERISTICS

Size, excluding connectors	9.96" x 7.20" x 1.65"
Weight	4 lbs. max.
Connectors	
RF	SMA (Female)
DC	Solder Terminal

REV: 1/5/18