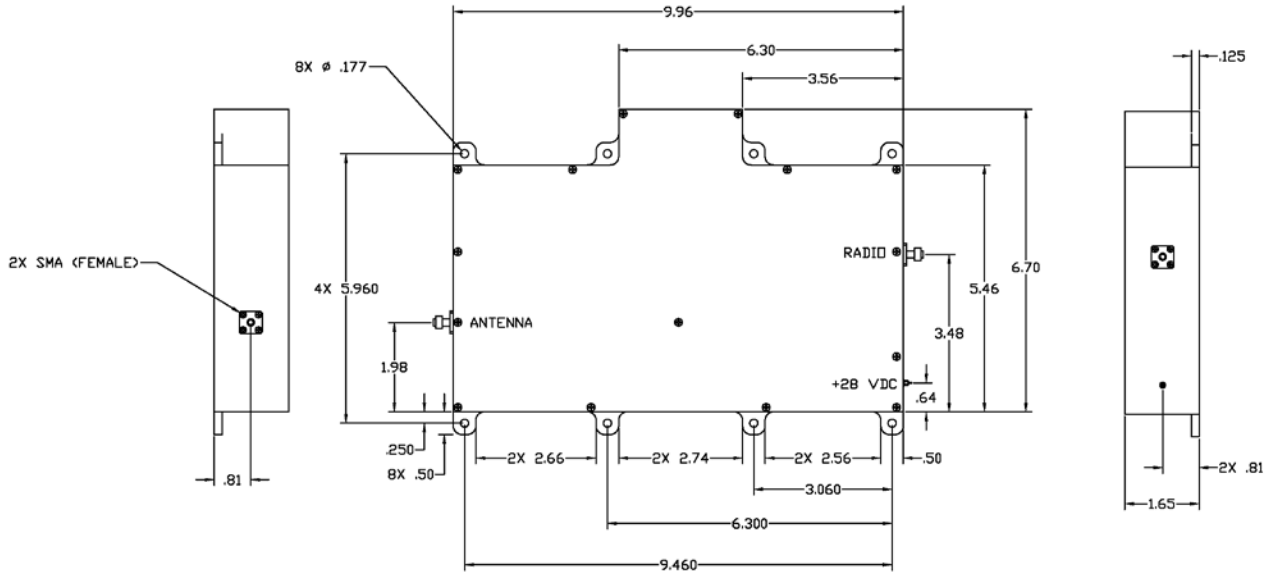
DFP-107A-2

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.
370-400 MHz	65 dB min.
400-1000 MHz	85 dB min.
Gain 243-270 MHz	3.0 dB nom./ 4.0 dB max.
Noise Figure:	
243-245 MHz	4.2 dB max.
245-263 MHz	4.0 dB max.
263-266 MHz	4.2 dB max.
266-270 MHz	5.0 dB max.
Input@ 1dB gain compression	-3 dBm min.
Input signal protection (243-270 MHz)	1 W max.
Intercept point, third order	+ 4dBm nom.
Reverse Isolation 0-270 MHz	40 dB min.
Preamp Current, Steady State	0.1A max.

Measurement Tolerance:
LOSS: 0 to 1.5 dB, +/- .05 dB
1.6 to 40 dB, +/- 0.1 dB
Above 40 dB, +/- 2 dB

TRANSMIT CHANNEL

PASSBAND	
291-294 MHz	1.1 dB max.
294-318.3 MHz	1.0 dB max.
REJECTION:	
0-230 MHz	80 dB min.
243-270 MHz	38 dB min., 40dB nom.
375-405 MHz	50 dB min.
405-1000 MHz	80 dB min.
VSWR, 291-318.3 MHz	1.4:1 max.
Reverse Isolation, 291-318.3 MHz	20 dB nom.
Reverse VSWR, 291-318.3 MHz	1.5:1 max.

GENERAL CHARACTERISTICS

Size, excluding connectors	1.65” x 7.20” x 9.96”
Weight	5.4 lbs. max.
Connectors	
RF, RADIO and ANTENNA	SMA (Female)
DC, +28 VDC	Solder Terminal

REV: 4/26/16

MPI METROPOLE PRODUCTS, INC
[THE FREQUENCY OF INNOVATION]

P: 540.659.2132 F: 540.659.2133
sales@metropoleproducts.com
2040 Jefferson Davis Highway, Stafford, Virginia 22554