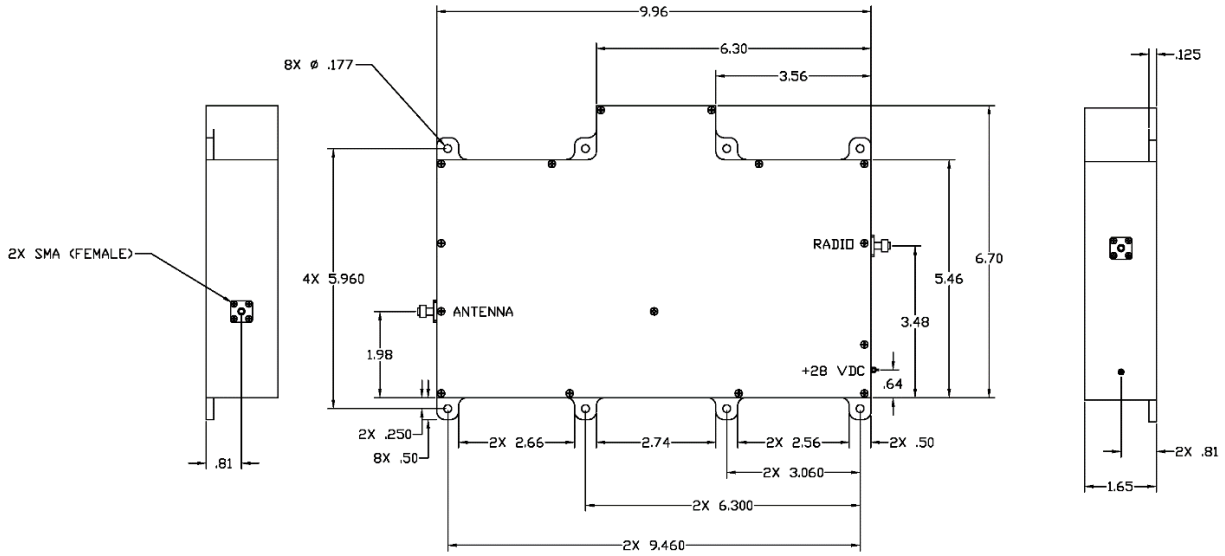
DFP-107A-2

SATCOM Diplexer/LNA



ELECTRICAL SPECIFICATIONS

RECEIVE CHANNEL (Antenna to Radio)

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	80 dB min.
Gain 243-270 MHz	3.0 dB min./ 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	+ 4 dBm nom.
Reverse Isolation:	
0-230 MHz	80 dB min.
243-270 MHz	38 dB min.
Preamp Current, Steady State	0.1A max.

TRANSMIT CHANNEL (Radio to Antenna)

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	16 dB min. / 20 dB nom.
Reverse VSWR, 291-318.3 MHz	1.5:1 max.

GENERAL CHARACTERISTICS

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

REV: 10/4/18

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[THE FREQUENCY OF INNOVATION]

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