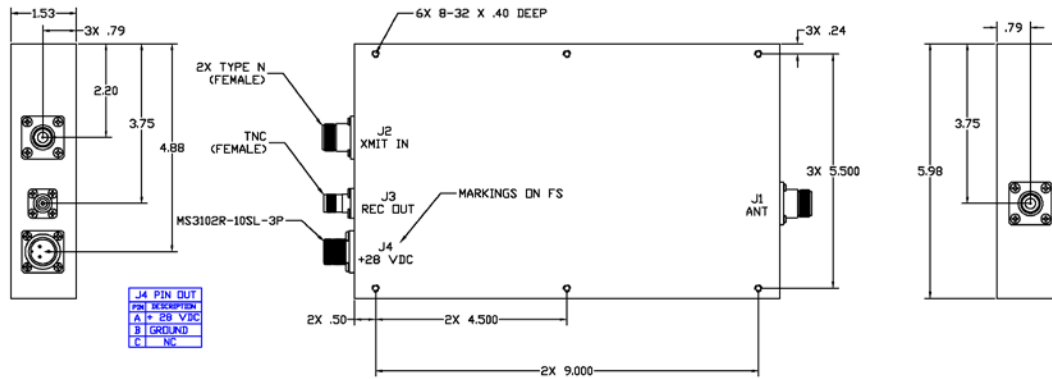




# DFP-106E (200W) DIPLEXER – PREAMPLIFIER

# FULL DUPLEX OPERATION WEATHERPROOF



## ELECTRICAL SPECIFICATIONS

### TRANSMIT CHARACTERISTICS, J2= Input, J1= Output

Passband	291-318.3 MHz
Insertion Loss	
295-315 MHz	0.8 dB max.
Over full passband	1.0 dB max.
VSWR, 291-318.3 MHz	1.4:1 max.
RF Input Power, CW	+23 dBW max.
Stopband	
0-225 MHz	90 dB min.
225-270 MHz	60 dB nom.
350-400 MHz	60 dB min.
400-1000 MHz	90 dB min.
Isolation, J2-J3	
291-318.3 MHz	60 dB min.
243-270 MHz	20 dB nom.

### GENERAL CHARACTERISTICS

Environmental Capability	Airborne/Shipboard (Weatherproof)
Weight	5 lbs. nom.
Power	
Voltage	+24 - +32 VDC
Current	90 mA nom.
Size, excluding connectors	1.55" x 5.98" x 10.00"
CONNECTORS	SMA (Female)
J1 and J2	Type N (Female)
J3	TNC (Female)
J4	MS3102R-10SL-3P

### RECEIVE CHARACTERISTICS, J1= Input, J2= Output

Passband Rolloff, 243- 270 MHz	1.5 dB max.
VSWR, 243-270MHz	1.5:1 max.
Stopband	
0-216 MHz	90 dB min.
216-230 MHz	60 dB min.
340-400 MHz	60 dB min.
400-1000 MHz	90 dB min.
Gain, 243-270 MHz	27.5 dB min.
Noise Figure, 243-270 MHz	2.5 dB max.
Input @ 1 dB gain compression	-25 dBm min.
Intercept Point, third order	+20 dBm nom.
Input Signal, Protection Level, 243-270 MHz	1W, CW

### RECEIVE CHARACTERISTICS, J1= Input, J3= Output

(Parameters not listed below are same as J1 to J2)	
Passband Rolloff, 243-270 MHz	1.2 dB max.
VSWR, 243-270 MHz	1.5:1 max.
Stopband	
0-175 MHz	90 dB min.
175-210 MHz	60 dB min.
291-700 MHz	90 dB min.
700-1200 MHz	40 dB min.
Gain, 243-270 MHz	28.5 dB min.

Rev 4/14/16