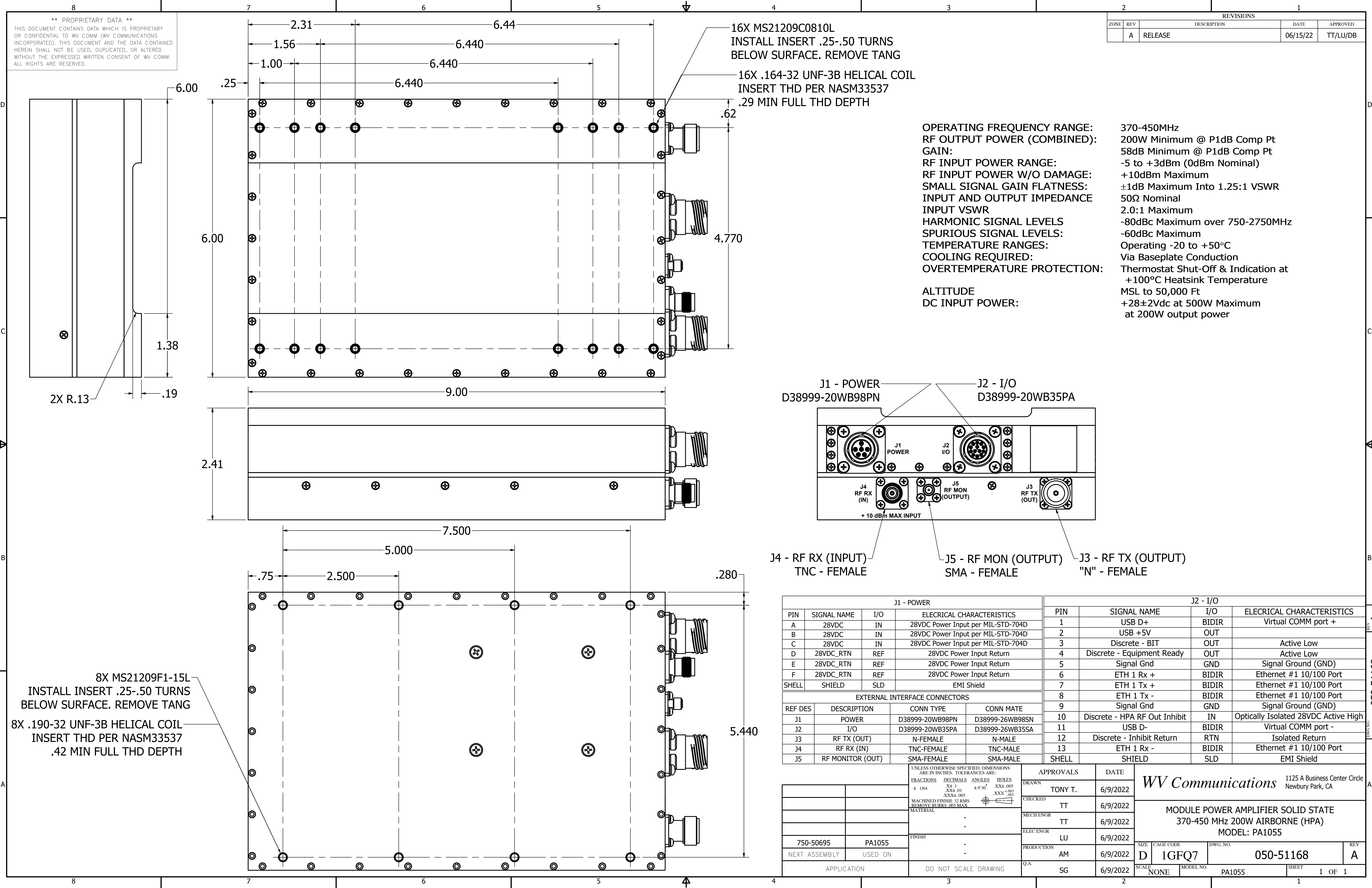
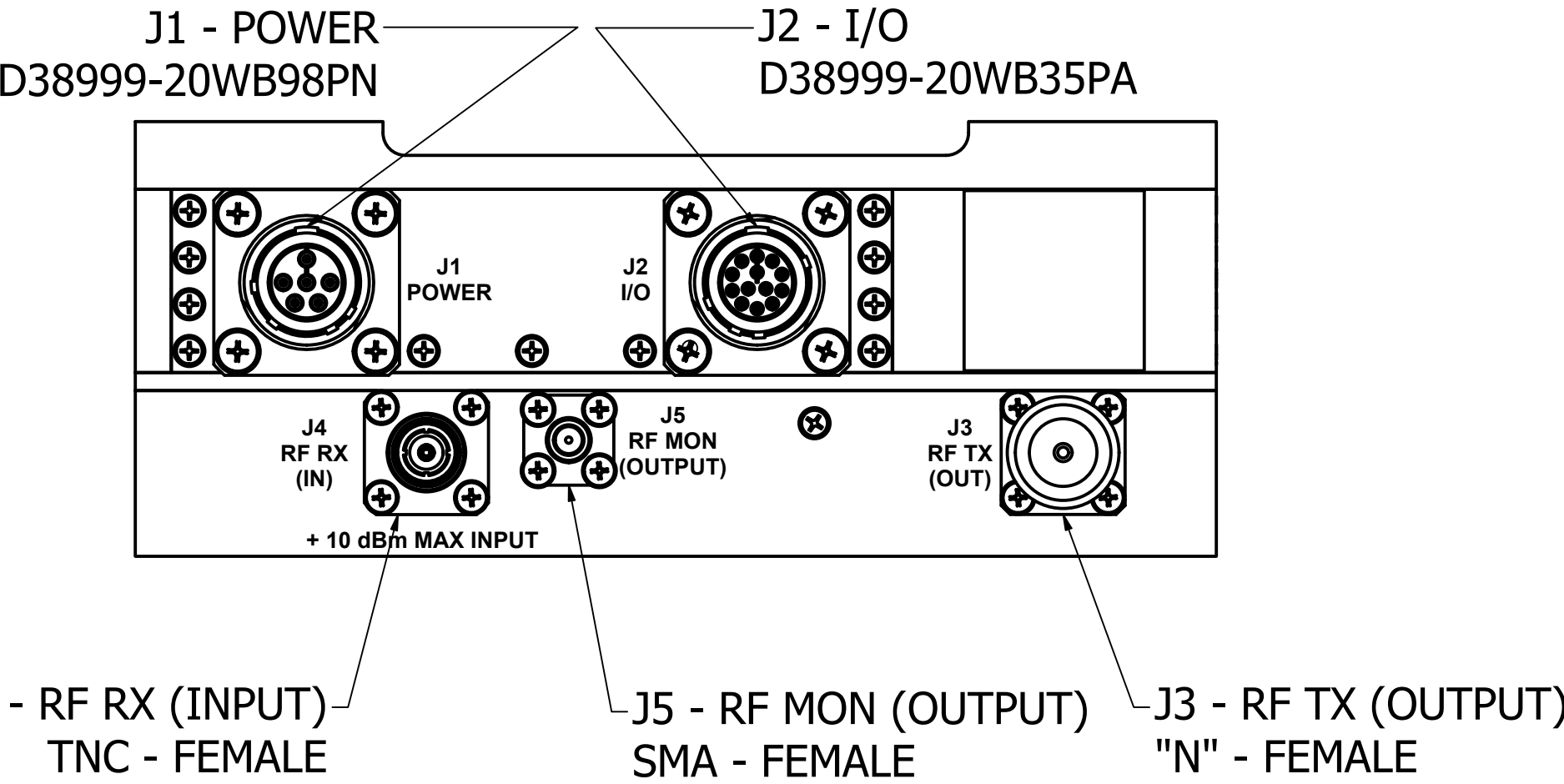




REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A	RELEASE	06/15/22	TT/LU/DB

OPERATING FREQUENCY RANGE: 370-450MHz
RF OUTPUT POWER (COMBINED): 200W Minimum @ P1dB Comp Pt
GAIN: 58dB Minimum @ P1dB Comp Pt
RF INPUT POWER RANGE: -5 to +3dBm (0dBm Nominal)
RF INPUT POWER W/O DAMAGE: +10dBm Maximum
SMALL SIGNAL GAIN FLATNESS: ±1dB Maximum Into 1.25:1 VSWR
INPUT AND OUTPUT IMPEDANCE: 50Ω Nominal
INPUT VSWR: 2.0:1 Maximum
HARMONIC SIGNAL LEVELS: -80dBc Maximum over 750-2750MHz
SPURIOUS SIGNAL LEVELS: -60dBc Maximum
TEMPERATURE RANGES: Operating -20 to +50°C
COOLING REQUIRED: Via Baseplate Conduction
OVERTEMPERATURE PROTECTION: Thermostat Shut-Off & Indication at +100°C Heatsink Temperature
ALTITUDE: MSL to 50,000 Ft
DC INPUT POWER: +28±2Vdc at 500W Maximum at 200W output power



J1 - POWER				J2 - I/O			
PIN	SIGNAL NAME	I/O	ELECICAL CHARACTERISTICS	PIN	SIGNAL NAME	I/O	ELECICAL CHARACTERISTICS
A	28VDC	IN	28VDC Power Input per MIL-STD-704D	1	USB D+	BIDIR	Virtual COMM port +
B	28VDC	IN	28VDC Power Input per MIL-STD-704D	2	USB +5V	OUT	
C	28VDC	IN	28VDC Power Input per MIL-STD-704D	3	Discrete - BIT	OUT	Active Low
D	28VDC_RTN	REF	28VDC Power Input Return	4	Discrete - Equipment Ready	OUT	Active Low
E	28VDC_RTN	REF	28VDC Power Input Return	5	Signal Gnd	GND	Signal Ground (GND)
F	28VDC_RTN	REF	28VDC Power Input Return	6	ETH 1 Rx +	BIDIR	Ethernet #1 10/100 Port
SHELL	SHIELD	SLD	EMI Shield	7	ETH 1 Tx +	BIDIR	Ethernet #1 10/100 Port
EXTERNAL INTERFACE CONNECTORS				8	ETH 1 Tx -	BIDIR	Ethernet #1 10/100 Port
REF DES	DESCRIPTION	CONN TYPE	CONN MATE	9	Signal Gnd	GND	Signal Ground (GND)
J1	POWER	D38999-20WB98PN	D38999-26WB98SN	10	Discrete - HPA RF Out Inhibit	IN	Optically Isolated 28VDC Active High
J2	I/O	D38999-20WB35PA	D38999-26WB35SA	11	USB D-	BIDIR	Virtual COMM port -
J3	RF TX (OUT)	N-FEMALE	N-MALE	12	Discrete - Inhibit Return	RTN	Isolated Return
J4	RF RX (IN)	TNC-FEMALE	TNC-MALE	13	ETH 1 Rx -	BIDIR	Ethernet #1 10/100 Port
J5	RF MONITOR (OUT)	SMA-FEMALE	SMA-MALE	SHELL	SHIELD	SLD	EMI Shield

8X MS21209F1-15L
INSTALL INSERT .25-.50 TURNS
BELOW SURFACE. REMOVE TANG

8X .190-32 UNF-3B HELICAL COIL
INSERT THD PER NASM33537
.42 MIN FULL THD DEPTH

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES ARE:		APPROVALS		DATE	
FRACTIONS	DECIMALS	ANGLES	HOLES	DRAWN	TONY T.
± 1/64	XX.1 XXX.01 XXX+.005	± 0°30'	XX+.005 XXX+.003 XXX-.001	CHECKED	TT
MACHINED FINISH: 32 RMS REMOVE BURRS .005 MAX MATERIAL		FINISH		MECH ENGR	TT
750-50695		PA1055		ELEC ENGR	LU
NEXT ASSEMBLY		USED ON		PRODUCTION	AM
APPLICATION		DO NOT SCALE DRAWING		Q.A.	SG
SIZE		CAGE CODE		DWG. NO.	
D		1GFQ7		050-51168	
SCALE		MODEL NO.		SHEET	
NONE		PA1055		1 OF 1	

WV Communications 1125 A Business Center Circle
Newbury Park, CA

MODULE POWER AMPLIFIER SOLID STATE
370-450 MHz 200W AIRBORNE (HPA)
MODEL: PA1055