

2125 - BBS3C6ANP

105 - 3000 MHz / 200/150 Watts

The BBS2E3KUT (SKU 2125) is suitable for broadband or band specific high power linear, CW and pulse applications. This amplifier includes 6 bands any 2 of which can operate simultaneously, and utilizes high power, DMOS, LDMOS and GaN devices that provide wide frequency response, high gain, high peak power capability, and low distortions. Exceptional performance, long-term reliability and high efficiency are achieved by employing advanced broadband RF matching networks and combining techniques, EMI/RFI filters, and all qualified components. The amplifier is constructed of two modular drawers and is housed in an optional rack cabinet. The main LRU includes the RF power section while the second LRU holds the main power supply and control circuits. The system operates from a single phase power supply and has a built in control, monitoring and protection functions and forced air-cooling system. Empower RF's ISO9001 Quality Assurance Program assures consistent performance and the highest reliability.



- Solid-state linear and modular design
- Instantaneous ultra broadband
- Suitable for CW, AM, and FM (Consult factory for other modulation types)
- 50 ohm input/output impedance
- Built in Control, Monitoring and Protection functions
- High reliability and ruggedness

ELECTRICAL SPECIFICATIONS @ 480V_{AC}, 3φ, 25°C, 50 Ω System

Parameter	Symbol	Min	Тур	Max	Unit
	Band A	105		184	
	Band B	184		321	
Operating Frequency for each Band	Band C	321		561	MHz
(Bandwidth)	Band D	561		981	IVII IZ
	Band E	981		1700	
	Band F	1700		3000	
Power Output CW	P _{SAT}	105-561MHz = 200 561-3000MHz = 150			Watt
Power Output @ P _{1dB}	P _{1dB}		105-561MHz = 150 561-3000MHz = 100		Watt
Power Gain @ P _{1dB}	G _{1dB}	105-561MHz = 53 561-3000MHz = 52			dB
Input Power for Rated P _{SAT}	P _{IN}		0		dBm
Small Signal Gain Flatness @ P _{IN} = -20 dBm	ΔG			±2.0	dB
Gain Adjustment Range	FGA	20	25		dB
Input Return Loss	S ₁₁			-10	dB
Noise Figure @ Maximum Gain	NF		10		dB
Third Order Intercept Point	IP3		+60		dBm
Harmonics @ Rated P _{1dB}	2 ND / 3 RD		-20		dBc
Spurious Signals	Spur	•	-80		dBc
Operating Voltage (3 phase)	V_{AC}	365	480	528	Volt
AC Power Consumption @ P _{OUT} = 150/100W	P _D	· ·	1000		Watt

MECHANICAL SPECIFICATIONS

Parameter	Value	Units
Dimensions W x H x D	19 x 19.25 x 22 (483 x 489 x 559)	Inc (mm)
Weight (No Enclosure)	150	lb.
RF Connectors, Input/Output	Type-N, Female	-
Cooling	Built in forced-air cooling system	-

ENVIRONMENTAL CHARACTERISTICS (Design to Meet)

Parameter	Symbol	Min	Тур	Max	Unit
Operating Temperature	T _C	0		+50	°C
Non-operating Temperature	T_{STG}	-40		+85	°C
Relative Humidity (non-condensing)	RH			95	%
Altitude (MIL-STD-810F Method 500.4)	ALT			30,000	Feet
Vibration/Shock MIL-STD-810F Method 514.5/516.5 – Proc I	VI/SH		Airborne		



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LIMITS

Input RF drive level without damage	+10 dBm	Max
Load VSWR @ Rated P _{1dB}		-
Thermal Overload	85°C shutdown	Max

J20 - Test Point Connector - D-Sub 37-Pin, Female

Pimir		rest i onit connector – D-o	
2 Forward Voltage 2 2.4 V Band E @ P _{1dB} 3 Forward Voltage 3 2.7V Band D @ P _{1dB} 4 Forward Voltage 4 3.0 V Band C @ P _{1dB} 5 Forward Voltage 5 3.0 V Band A @ P _{1dB} 6 Forward Voltage 6 3.0 V Band A @ P _{1dB} 7 Reverse Voltage 1 1.1 V Band F 3:1 @ P _{1dB} 8 Reverse Voltage 2 1.0 V Band & 2:1 @ P _{1dB} 10 Reverse Voltage 2 1.0 V Band C 3:1 @ P _{1dB} 11 Reverse Voltage 3 1.8 V Band C 3:1 @ P _{1dB} 11 Reverse Voltage 3 1.8 V Band C 3:1 @ P _{1dB} 11 Reverse Voltage 5 1.2 V Band C 3:1 @ P _{1dB} 11 Reverse Voltage 5 1.2 V Band C 3:1 @ P _{1dB} 11 Reverse Voltage 5 1.2 V Band B 3:1 @ P _{1dB} 11 Reverse Voltage 6 1.7 V Band A 3:1 @ P _{1dB} 12 Reverse Voltage 6 1.7 V Band A 3:1 @ P _{1dB} 13 Current Monitor 1 1.0 V Band F @ P _{1dB} 14 Current Monitor 2 0.8 V Band E @ P _{1dB} 15 Current Monitor 3 0.7 V Band D @ P _{1dB} 16 Current Monitor 4 0.9 V Band C @ P _{1dB} 17 Current Monitor 6 0.8 V Band B @ P _{1dB} 18 Current Monitor 6 0.8 V Band B @ P _{1dB} 19 Temp Sense 1 0.2 V Q P _{1dB} 20 Temp Alam 4.66 V @ P _{1dB} 21 Mute 1 4.36 V @ P _{1dB} 22 Mute 2 5.98 V @ P _{1dB} 24 Ground to Subsystem Ground 25 Standby 5.15 V @ P _{1dB} 26 N/C No Connection 27 N/C No Connection 30 Shutdown 1 4V @ P _{1dB} 31 Shutdown 2 4V @ P _{1dB} 32 N/C No Connection 31 Shutdown 2 4V @ P _{1dB} 32 N/C No Connection 33 H2.0 V Q P _{1dB} 34 N/C No Connection 35 H12.0 Volts 2 12 V @ P _{1dB} 36 Feng Sense 2 0.88 V @ P _{1dB}	Pin#	Description	Specifications Specification Specifica
3	1	Forward Voltage 1	3.1V Band F @ P _{1dB}
4 Forward Voltage 4 3.0 V Band C @ Ptets 5 Forward Voltage 5 3.0 V Band B @ Ptets 6 Forward Voltage 6 3.0 V Band A @ Ptets 7 Reverse Voltage 1 1.1 V Band F 3:1 @ Ptets 8 Reverse Voltage 2 1.0 V Band E 3:1 @ Ptets 9 Reverse Voltage 3 1.6 V Band D 3:1 @ Ptets 110 Reverse Voltage 3 1.6 V Band D 3:1 @ Ptets 111 Reverse Voltage 4 1.8 V Band C 3:1 @ Ptets 112 Reverse Voltage 5 1.2 V Band B 3:1 @ Ptets 113 Current Monitor 1 1.0 V Band F @ Ptets 114 Current Monitor 1 1.0 V Band E @ Ptets 115 Current Monitor 3 0.7 V Band D @ Ptets 116 Current Monitor 3 0.7 V Band D @ Ptets 117 Current Monitor 4 0.9 V Band C @ Ptets 118 Current Monitor 6 0.8 V Band B @ Ptets 119 Temp Sense 1 0.2 B V @ Ptets 120 Temp Alarm 4.86 V @ Ptets 121 Mute 1 4.36 V @ Ptets 122 Mute 2 5.98 V @ Ptets 123 VSWR Fault 5.41 V @ Ptets 124 Ground to Subsystem Ground 125 Standby 5.15 V @ Ptets 126 N/C No Connection 127 N/C No Connection 138 N/C No Connection 140 No Connection 151 Shutdown 2 4 V @ Ptets 152 Standby 5.15 V @ Ptets 153 Shutdown 1 4 V @ Ptets 154 ON Connection 155 Shutdown 2 4 V @ Ptets 156 N/C No Connection 157 N/C No Connection 158 N/C No Connection 159 N/C No Connection 150 Shutdown 2 4 V @ Ptets 151 Shutdown 2 4 V @ Ptets 151 Shutdown 2 4 V @ Ptets 152 SV @ Ptets 153 Shutdown 2 4 V @ Ptets 154 N/C No Connection 155 Shutdown 2 5 V @ Ptets 156 N/C No Connection 150 Shutdown 2 4 V @ Ptets 151 Shutdown 2 5 V @ Ptets 151 Shutdown 2 5 V @ Ptets 151 Shutdown 2 5 V @ Ptets 152 ST Earne Shutdown 2 5 V @ Ptets 153 Shutdown 2 5 V @ Ptets 154 Shutdown 2 5 V @ Ptets 155 Shutdown 2 5 V @ Ptets 156 Shutdown 2 5 V @ Ptets 157 Shutdown 2 5 V @ Ptets 158 Shutdown 2 5 V @ Ptets 159 Shutdown 2 5 V @ Ptets 159 Shutdown 2 5 V @ Ptets 150 Shutd	2	Forward Voltage 2	
5 Forward Voltage 5 3.0 V Band B @ P₁as 6 Forward Voltage 6 3.0 V Band A @ P₁as 7 Reverse Voltage 2 1.1 V Band F 3:1 @ P₁as 8 Reverse Voltage 2 1.0 V Band E 3:1 @ P₁as 9 Reverse Voltage 3 1.6 V Band D 3:1 @ P₁as 10 Reverse Voltage 4 1.8 V Band C 3:1 @ P₁as 11 Reverse Voltage 5 1.2 V Band B 3:1 @ P₁as 12 Reverse Voltage 6 1.7 V Band A 3:1 @ P₁as 13 Current Monitor 1 1.0 V Band F @ P₁as 14 Current Monitor 2 0.8 V Band E @ P₁as 15 Current Monitor 3 0.7 V Band D @ P₁as 16 Current Monitor 5 0.8 V Band C @ P₁as 17 Current Monitor 5 0.8 V Band B @ P₁as 18 Current Monitor 6 0.8 V Band A @ P₁as 19 Temp Sense 1 0.28 V @ P₁as 20 Temp Alarm 4.86 V @ P₁as 21 Mute 1 4.36 V @ P₁as 22 Mute 2 5.98 V @ P₁as 23 VSWR Fault 5.41 V @ P₁as 24 Ground to Subsystem Ground 25 Standby 5.15 V @ P₁as 31 Shutdown 2 4 V @ P₁as 31 Shutdown 2 4 V @ P₁as 32 N/C No Connection 33 Shutdown 2 4 V @ P₁as 34 N/C No Connection 35 +12.0 Volts 2 12 V @ P₁as 36 Fense 2 0.68 V @ P₁as 37 Fense Sense 2 0.68 V @ P₁as 38 Fense Sense 2 0.68 V @ P₁as 39 Fense Sense 2 0.68 V @ P₁as 30 Fense Sense	3	Forward Voltage 3	2.7V Band D @ P _{1dB}
6 Forward Voltage 6 3.0 V Band A @ P t ₁₆₈ 7 Reverse Voltage 1 1.1 V Band F 3:1 @ P ₁₆₈ 8 Reverse Voltage 2 1.0 V Band E 3:1 @ P ₁₆₈ 9 Reverse Voltage 3 1.6 V Band D 3:1 @ P ₁₆₈ 10 Reverse Voltage 4 1.8 V Band C 3:1 @ P ₁₆₈ 11 Reverse Voltage 6 1.2 V Band B 3:1 @ P ₁₆₈ 12 Reverse Voltage 6 1.2 V Band B 3:1 @ P ₁₆₈ 13 Current Monitor 1 1.0 V Band F @ P ₁₆₈ 14 Current Monitor 1 1.0 V Band F @ P ₁₆₈ 15 Current Monitor 3 0.7 V Band D @ P ₁₆₈ 16 Current Monitor 4 0.9 V Band E @ P ₁₆₈ 17 Current Monitor 4 0.9 V Band B @ P ₁₆₈ 18 Current Monitor 6 0.8 V Band B @ P ₁₆₈ 19 Temp Sense 1 0.28 V @ P ₁₆₈ 20 Temp Alarm 4.86 V @ P ₁₆₈ 21 Mute 1 4.36 V @ P ₁₆₈ 22 Mute 2 5.98 V @ P ₁₆₈ 23 VSWR Fault 5.41 V @ P ₁₆₈ 24 Ground to Subsystem Ground 25 Standby 5.15 V @ P ₁₆₈ 30 Shutdown 1 4 V @ P ₁₆₈ 31 Shutdown 2 4 V @ P ₁₆₈ 31 Shutdown 2 4 V @ P ₁₆₈ 32 N/C No Connection 33 H.5 DVOIts 2 12 V @ P ₁₆₈ 34 N/C No Connection 35 +12.0 Volts 2 12 V @ P ₁₆₈ 36 Temp Sense 2 0.68 V @ P ₁₆₈	4	Forward Voltage 4	
7 Reverse Voltage 1 1.1V Band F 3:1 @ P₁db 8 Reverse Voltage 2 1.0V Band D 3:1 @ P₁db 9 Reverse Voltage 3 1.6V Band D 3:1 @ P₁db 10 Reverse Voltage 4 1.8V Band C 3:1 @ P₁db 11 Reverse Voltage 5 1.2V Band A 3:1 @ P₁db 12 Reverse Voltage 6 1.7V Band A 3:1 @ P₁db 13 Current Monitor 1 1.0V Band F @ P₁db 14 Current Monitor 2 0.8V Band E @ P₁db 15 Current Monitor 4 0.9V Band C @ P₁db 16 Current Monitor 4 0.9V Band B @ P₁db 17 Current Monitor 5 0.8V Band B @ P₁db 18 Current Monitor 6 0.8V Band A @ P₁db 19 Temp Sense 1 0.28V @ P₁db 20 Temp Alarm 4.86V @ P₁db 21 Mute 1 4.36V @ P₁db 22 Mute 2 5.98V @ P₁db 23 VSWR Fault 5.41V @ P₁db 24 Ground to Subsystem Ground 25 Standby 5.15V @ P₁db 26	5)	
Reverse Voltage 2	6	Forward Voltage 6	
9 Reverse Voltage 3 1.6V Band D 3:1 @ P _{1dB} 10 Reverse Voltage 4 1.8V Band C 3:1 @ P _{1dB} 11 Reverse Voltage 5 1.2V Band B 3:1 @ P _{1dB} 12 Reverse Voltage 6 1.7V Band A 3:1 @ P _{1dB} 13 Current Monitor 1 1.0V Band F @ P _{1dB} 14 Current Monitor 2 0.8V Band E @ P _{1dB} 15 Current Monitor 3 0.7V Band D @ P _{1dB} 16 Current Monitor 5 0.8V Band B @ P _{1dB} 17 Current Monitor 5 0.8V Band B @ P _{1dB} 18 Current Monitor 6 0.8V Band A @ P _{1dB} 19 Temp Sense 1 0.28V @ P _{1dB} 20 Temp Alarm 4.86V @ P _{1dB} 21 Mute 1 4.36V @ P _{1dB} 22 Mute 2 5.98V @ P _{1dB} 23 VSWR Fault 5.41V @ P _{1dB} 24 Ground to Subsystem Ground	7	Reverse Voltage 1	1.1V Band F 3:1 @ P _{1dB}
10	8		
11	9	Reverse Voltage 3	1.6V Band D 3:1 @ P _{1dB}
12 Reverse Voltage 6 1.7V Band A 3:1 @ P₁dB 13 Current Monitor 1 1.0V Band F @ P₁dB 14 Current Monitor 2 0.8V Band E @ P₁dB 15 Current Monitor 3 0.7V Band D @ P₁dB 16 Current Monitor 4 0.9V Band C @ P₁dB 17 Current Monitor 5 0.8V Band B @ P₁dB 18 Current Monitor 6 0.8V Band B @ P₁dB 19 Temp Sense 1 0.28V @ P₁dB 20 Temp Alarm 4.86V @ P₁dB 21 Mute 1 4.36V @ P₁dB 22 Mute 2 5.98V @ P₁dB 23 VSWR Fault 5.41V @ P₁dB 24 Ground to Subsystem 25 Standby 5.15V @ P₁dB 26 N/C No Connection 27 N/C No Connection 28 N/C No Connection 29 N/C No Connection 30 Shutdown 1 4V @ P₁dB 31 Shutdown 2 4V @ P₁dB 32 N/C No Connection 33 +5.0Volts 2 5V @ P₁dB 34 N/C No Connection 35 +12.0Volts 2 5V @ P₁dB 36 Temp Sense 2 0.68V @ P₁dB	10	Reverse Voltage 4	
13	11		
14	12	Reverse Voltage 6	
15	13	Current Monitor 1	
16	14	Current Monitor 2	0.8V Band E @ P _{1dB}
17 Current Monitor 5 0.8V Band B @ P₁dB 18 Current Monitor 6 0.8V Band A @ P₁dB 19 Temp Sense 1 0.28V @ P₁dB 20 Temp Alarm 4.86V @ P₁dB 21 Mute 1 4.36V @ P₁dB 22 Mute 2 5.98V @ P₁dB 23 VSWR Fault 5.41V @ P₁dB 24 Ground to Subsystem Ground 25 Standby 5.15V @ P₁dB 26 N/C No Connection 27 N/C No Connection 28 N/C No Connection 29 N/C No Connection 30 Shutdown 1 4V @ P₁dB 31 Shutdown 2 4V @ P₁dB 32 N/C No Connection 33 +5.0Volts_2 5V @ P₁dB 34 N/C No Connection 35 +12.0Volts_2 12V @ P₁dB 36 Temp Sense 2 0.68V @ P₁dB	15	Current Monitor 3	
18 Current Monitor 6 0.8V Band A @ P _{1dB} 19 Temp Sense 1 0.28V @ P _{1dB} 20 Temp Alarm 4.86V @ P _{1dB} 21 Mute 1 4.36V @ P _{1dB} 22 Mute 2 5.98V @ P _{1dB} 23 VSWR Fault 5.41V @ P _{1dB} 24 Ground to Subsystem Ground 25 Standby 5.15V @ P _{1dB} 26 N/C No Connection 27 N/C No Connection 28 N/C No Connection 29 N/C No Connection 30 Shutdown 1 4V @ P _{1dB} 31 Shutdown 2 4V @ P _{1dB} 32 N/C No Connection 33 +5.0Volts_2 5V @ P _{1dB} 34 N/C No Connection 35 +12.0Volts_2 12V @ P _{1dB} 36 Temp Sense 2 0.68V @ P _{1dB}		Current Monitor 4	
19 Temp Sense 1 0.28V @ P₁dB 20 Temp Alarm 4.86V @ P₁dB 21 Mute 1 4.36V @ P₁dB 22 Mute 2 5.98V @ P₁dB 23 VSWR Fault 5.41V @ P₁dB 24 Ground to Subsystem Ground 25 Standby 5.15V @ P₁dB 26 N/C No Connection 27 N/C No Connection 28 N/C No Connection 29 N/C No Connection 30 Shutdown 1 4V @ P₁dB 31 Shutdown 2 4V @ P₁dB 32 N/C No Connection 33 +5.0Volts_2 5V @ P₁dB 34 N/C No Connection 35 +12.0Volts_2 12V @ P₁dB 36 Temp Sense 2 0.68V @ P₁dB	17	Current Monitor 5	0.8V Band B @ P _{1dB}
20 Temp Alarm 4.86V @ P₁dB 21 Mute 1 4.36V @ P₁dB 22 Mute 2 5.98V @ P₁dB 23 VSWR Fault 5.41V @ P₁dB 24 Ground to Subsystem Ground 25 Standby 5.15V @ P₁dB 26 N/C No Connection 27 N/C No Connection 28 N/C No Connection 29 N/C No Connection 30 Shutdown 1 4V @ P₁dB 31 Shutdown 2 4V @ P₁dB 32 N/C No Connection 33 +5.0Volts_2 5V @ P₁dB 34 N/C No Connection 35 +12.0Volts_2 12V @ P₁dB 36 Temp Sense 2 0.68V @ P₁dB	18	Current Monitor 6	0.8V Band A @ P _{1dB}
21 Mute 1 4.36V @ P _{1dB} 22 Mute 2 5.98V @ P _{1dB} 23 VSWR Fault 5.41V @ P _{1dB} 24 Ground to Subsystem Ground 25 Standby 5.15V @ P _{1dB} 26 N/C No Connection 27 N/C No Connection 28 N/C No Connection 29 N/C No Connection 30 Shutdown 1 4V @ P _{1dB} 31 Shutdown 2 4V @ P _{1dB} 32 N/C No Connection 33 +5.0Volts_2 5V @ P _{1dB} 34 N/C No Connection 35 +12.0Volts_2 12V @ P _{1dB} 36 Temp Sense 2 0.68V @ P _{1dB}	19	Temp Sense 1	0.28V @ P _{1dB}
22 Mute 2 5.98V @ P _{1dB} 23 VSWR Fault 5.41V @ P _{1dB} 24 Ground to Subsystem Ground 25 Standby 5.15V @ P _{1dB} 26 N/C No Connection 27 N/C No Connection 28 N/C No Connection 29 N/C No Connection 30 Shutdown 1 4V @ P _{1dB} 31 Shutdown 2 4V @ P _{1dB} 32 N/C No Connection 33 +5.0Volts_2 5V @ P _{1dB} 34 N/C No Connection 35 +12.0Volts_2 12V @ P _{1dB} 36 Temp Sense 2 0.68V @ P _{1dB}	20	Temp Alarm	4.86V @ P _{1dB}
23 VSWR Fault 5.41V @ P _{1dB} 24 Ground to Subsystem Ground 25 Standby 5.15V @ P _{1dB} 26 N/C No Connection 27 N/C No Connection 28 N/C No Connection 29 N/C No Connection 30 Shutdown 1 4V @ P _{1dB} 31 Shutdown 2 4V @ P _{1dB} 32 N/C No Connection 33 +5.0Volts_2 5V @ P _{1dB} 34 N/C No Connection 35 +12.0Volts_2 12V @ P _{1dB} 36 Temp Sense 2 0.68V @ P _{1dB}	21	Mute 1	4.36V @ P _{1dB}
24 Ground to Subsystem Ground 25 Standby 5.15V @ P _{1dB} 26 N/C No Connection 27 N/C No Connection 28 N/C No Connection 29 N/C No Connection 30 Shutdown 1 4V @ P _{1dB} 31 Shutdown 2 4V @ P _{1dB} 32 N/C No Connection 33 +5.0Volts_2 5V @ P _{1dB} 34 N/C No Connection 35 +12.0Volts_2 12V @ P _{1dB} 36 Temp Sense 2 0.68V @ P _{1dB}	22	Mute 2	5.98V @ P _{1dB}
25 Standby 5.15V @ P _{1dB} 26 N/C No Connection 27 N/C No Connection 28 N/C No Connection 29 N/C No Connection 30 Shutdown 1 4V @ P _{1dB} 31 Shutdown 2 4V @ P _{1dB} 32 N/C No Connection 33 +5.0Volts_2 5V @ P _{1dB} 34 N/C No Connection 35 +12.0Volts_2 12V @ P _{1dB} 36 Temp Sense 2 0.68V @ P _{1dB}	23		5.41V @ P _{1dB}
26 N/C No Connection 27 N/C No Connection 28 N/C No Connection 29 N/C No Connection 30 Shutdown 1 4V @ P _{1dB} 31 Shutdown 2 4V @ P _{1dB} 32 N/C No Connection 33 +5.0Volts_2 5V @ P _{1dB} 34 N/C No Connection 35 +12.0Volts_2 12V @ P _{1dB} 36 Temp Sense 2 0.68V @ P _{1dB}		Ground to Subsystem	
27 N/C No Connection 28 N/C No Connection 29 N/C No Connection 30 Shutdown 1 4V @ P _{1dB} 31 Shutdown 2 4V @ P _{1dB} 32 N/C No Connection 33 +5.0Volts_2 5V @ P _{1dB} 34 N/C No Connection 35 +12.0Volts_2 12V @ P _{1dB} 36 Temp Sense 2 0.68V @ P _{1dB}	25	Standby	5.15V @ P _{1dB}
28 N/C No Connection 29 N/C No Connection 30 Shutdown 1 4V @ P _{1dB} 31 Shutdown 2 4V @ P _{1dB} 32 N/C No Connection 33 +5.0Volts_2 5V @ P _{1dB} 34 N/C No Connection 35 +12.0Volts_2 12V @ P _{1dB} 36 Temp Sense 2 0.68V @ P _{1dB}	26	N/C	No Connection
29 N/C No Connection 30 Shutdown 1 4V @ P _{1dB} 31 Shutdown 2 4V @ P _{1dB} 32 N/C No Connection 33 +5.0Volts_2 5V @ P _{1dB} 34 N/C No Connection 35 +12.0Volts_2 12V @ P _{1dB} 36 Temp Sense 2 0.68V @ P _{1dB}	27	N/C	No Connection
30 Shutdown 1 4V @ P _{1dB} 31 Shutdown 2 4V @ P _{1dB} 32 N/C No Connection 33 +5.0Volts_2 5V @ P _{1dB} 34 N/C No Connection 35 +12.0Volts_2 12V @ P _{1dB} 36 Temp Sense 2 0.68V @ P _{1dB}	28	N/C	No Connection
31 Shutdown 2 4V @ P _{1dB} 32 N/C No Connection 33 +5.0Volts_2 5V @ P _{1dB} 34 N/C No Connection 35 +12.0Volts_2 12V @ P _{1dB} 36 Temp Sense 2 0.68V @ P _{1dB}	29	N/C	No Connection
32 N/C No Connection 33 +5.0Volts_2 5V @ P _{1dB} 34 N/C No Connection 35 +12.0Volts_2 12V @ P _{1dB} 36 Temp Sense 2 0.68V @ P _{1dB}		Shutdown 1	
33 +5.0Volts_2 5V @ P _{1dB} 34 N/C No Connection 35 +12.0Volts_2 12V @ P _{1dB} 36 Temp Sense 2 0.68V @ P _{1dB}	31	Shutdown 2	
34 N/C No Connection 35 +12.0Volts _2 12V @ P _{1dB} 36 Temp Sense 2 0.68V @ P _{1dB}	32	N/C	No Connection
35 +12.0Volts _2 12V @ P _{1dB} 36 Temp Sense 2 0.68V @ P _{1dB}	33	+5.0Volts_2	5V @ P _{1dB}
36 Temp Sense 2 0.68V @ P _{1dB}	34	N/C	No Connection
	35	+12.0Volts _2	
37 Ground Ground		Temp Sense 2	0.68V @ P _{1dB}
	37	Ground	Ground

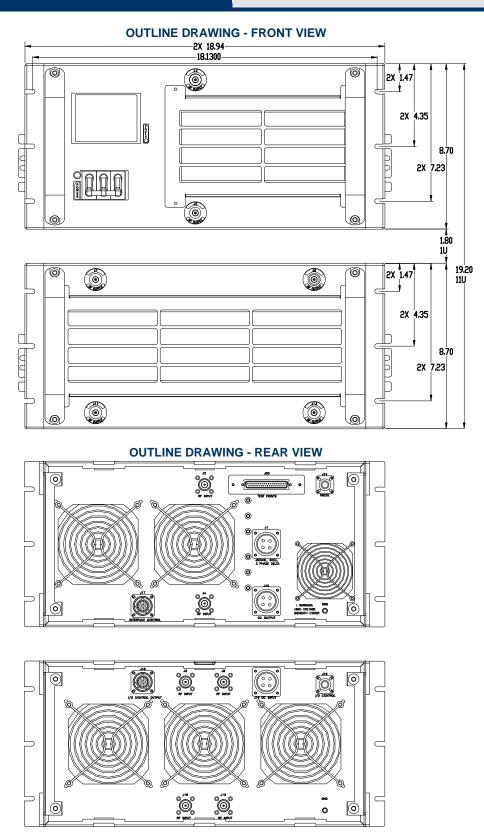
J19 - I/O CONTROL CONNECTOR - Circular 6-Pin, Female (MTV26 CLUTCH-LOK - D38999/20WA35SN)

Pin #	Description	Notes	
1	Band A Enable Control: TTL Logic Low (0V)		
2	Band B Enable Control: TTL Logic Low (0V)		
3	Band C Enable Control: TTL Logic Low (0V)	LCD Controller must be set to the active Band for proper reporting	
4	Band D Enable Control: TTL Logic Low (0V)	on the display panel.	
5	Band E Enable Control: TTL Logic Low (0V)		
6	Band F Enable Control: TTL Logic Low (0V)		



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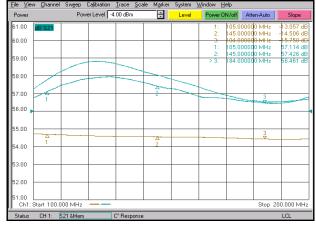
105 - 3000 MHz / 200/150 Watts

Typical Performance Plots

Band A Plot 1 – Small Signal Gain and P_{1dB}

Top Curve: Small Signal Gain @ P_{IN} = -20dBm Middle Curve: Power Gain @ P_{1dB} , P_{IN} = -4.0dBm Reference: 56dB, 1dB/Div. Bottom Curve: Input Return Loss

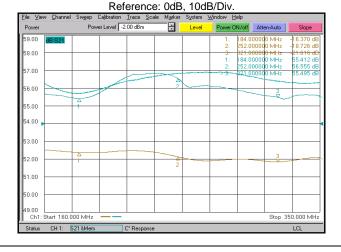
ottom Curve: Input Return Los Reference: 0dB, 10dB/Div.



Band B

Plot 3 - Small Signal Gain and P_{1dB}

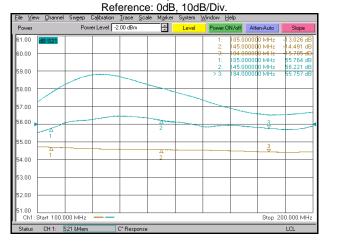
Top Curve: Small Signal Gain @ $P_{\text{IN}} = -20\text{dBm}$ Middle Curve: Power Gain @ P_{1dB} , $P_{\text{IN}} = -2.0\text{dBm}$ Reference: 54dB, 1dB/Div. Bottom Curve: Input Return Loss



Band A

Plot 2 - Small Signal Gain and PSAT

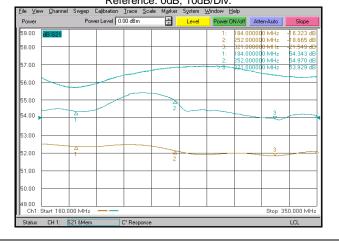
Top Curve: Small Signal Gain @ P_{IN} = -20dBm Middle Curve: Power Gain @ P_{SAT} , P_{IN} = -2.0dBm Reference: 56dB, 1dB/Div. Bottom Curve: Input Return Loss



Band B

Plot 4 - Small Signal Gain and PSAT

Top Curve: Small Signal Gain @ P_{IN} = -20dBm Middle Curve: Power Gain @ P_{SAT} , P_{IN} = 0.0dBm Reference: 54dB, 1dB/Div. Bottom Curve: Input Return Loss Reference: 0dB, 10dB/Div.

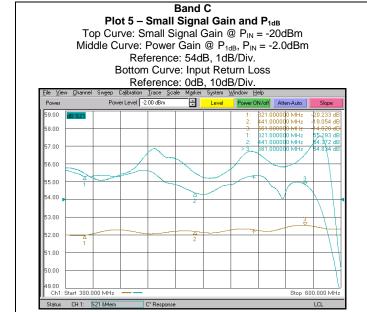




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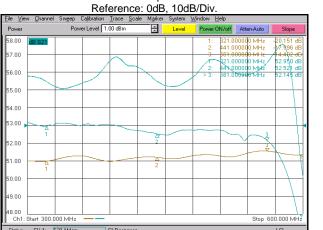
105 - 3000 MHz / 200/150 Watts

Band C



Plot 6 - Small Signal Gain and PSAT

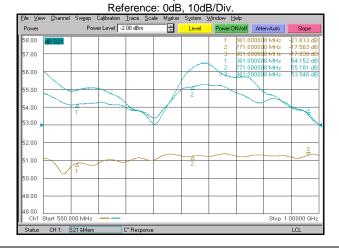
Top Curve: Small Signal Gain @ P_{IN} = -20dBm Middle Curve: Power Gain @ P_{SAT}, P_{IN} = +1.0dBm Reference: 53dB, 1dB/Div. Bottom Curve: Input Return Loss



Band D

Plots 7 - Small Signal Gain and P1dB

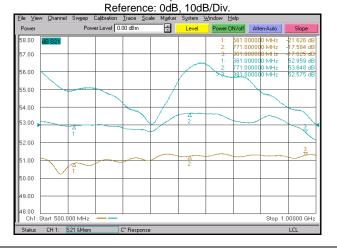
Top Curve: Small Signal Gain @ P_{IN} = -20dBm Middle Curve: Power Gain @ P_{1dB}, P_{IN} = -2.0dBm Reference: 53dB. 1dB/Div. Bottom Curve: Input Return Loss



Band D

Plot 8 - Small Signal Gain and PSAT

Top Curve: Small Signal Gain @ P_{IN} = -20dBm Middle Curve: Power Gain @ P_{SAT}, P_{IN} = 0.0dBm Reference: 53dB, 1dB/Div. Bottom Curve: Input Return Loss





2125 - BBS3C6ANP

105 - 3000 MHz / 200/150 Watts

