

CoolPlay 1670 DVM Transmitter FCC Certification Application

Application for Equipment Certification

EXHIBIT J DC Voltages and Currents of Final Amplifier

2.1033 (c) (8) Final amplifier DC voltages & currents

The dc voltages applied to and dc currents into the several elements of the final radio frequency amplifying device for normal operation over the power range.

The DVM400 transmitter uses four solid state power amplifiers per cabinet. The operating RF output power per amplifier is ~250W. The voltages and currents for one Power Amplifier Block on the DVM400 is shown below,

UBS Site Controller - Microsoft Internet Explorer provided by HARRIS Corporation			
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ALC Channel A Forward power (in dBm): 56.1		ALC Channel A Reflected power (in dBm): 26.5	
ALC Channel A ALC Target (in dBm): 33.0		ALC Channel A ALC: OFF	
PA Block Top PA Block Forward power (in dBm): 54.6		PA Block Bottom PA Block Forward power (in dBm): 53.8	
PA Block Top		Mon Apr 30 19:54:15 2007	
PA Block Top Module Bottom Measured Temperature:	36 C	PA Block Top Module Top Measured Temperature:	35 C
PA Block Top Module Bottom Measured Voltage:	32.8 V	PA Block Top Module Top Measured Voltage:	33.0 V
PA Block Top Module Bottom PA Module Enable:	ON	PA Block Top Module Top PA Module Enable:	ON
PA Block Top Module Bottom PA Module Present:	ON	PA Block Top Module Top PA Module Present:	ON
PA Block Top Module Bottom n/a Current:	0.000 A	PA Block Top Module Top n/a Current:	0.000 A
PA Block Top Module Bottom bipolar Current:	0.009 A	PA Block Top Module Top bipolar Current:	0.079 A
PA Block Top Module Bottom Driver MRF282(1) Current:	0.076 A	PA Block Top Module Top Driver MRF282(1) Current:	0.013 A
PA Block Top Module Bottom Driver MRF282(2) Current:	0.074 A	PA Block Top Module Top Driver MRF282(2) Current:	0.082 A
PA Block Top Module Bottom OUT1 MRF284 Current:	0.425 A	PA Block Top Module Top OUT1 MRF284 Current:	0.568 A
PA Block Top Module Bottom OUT1 PTF141501(1) Current:	4.387 A	PA Block Top Module Top OUT1 PTF141501(1) Current:	5.342 A
PA Block Top Module Bottom OUT1 PTF141501(2) Current:	4.403 A	PA Block Top Module Top OUT1 PTF141501(2) Current:	5.236 A
PA Block Top Module Bottom OUT2 MRF284 Current:	0.433 A	PA Block Top Module Top OUT2 MRF284 Current:	0.467 A
PA Block Top Module Bottom OUT2 PTF141501(1) Current:	4.684 A	PA Block Top Module Top OUT2 PTF141501(1) Current:	4.810 A
PA Block Top Module Bottom OUT2 PTF141501(2) Current:	4.520 A	PA Block Top Module Top OUT2 PTF141501(2) Current:	4.673 A

A display screen from the transmitter has been captured to show the required data. The supply voltage and the currents of all RF stages are shown.

From this data, it may be seen that the supply voltage of this PA module is 32.8V.

The total PA module current for this module is the sum of the currents, which is about 20.2A. The total Power Amplifier Block would be about 40.4A.