

Transmitter Power Output Calculation
Translator W296DM
250 Watts – 107.1 mHz
Arab, Alabama
February 2020

Given:

ERP = 0.25 KW (-6.0206 dBk)
Antenna Gain = .46 (multiplier) or -3.4 dB
Transmission Line = -1.1408 dB (total)
Iso-coupler = -0.2 dB

System Loss:

1-bay antenna	-3.4 dB
Transmission line	-1.1408 dB
Iso-Coupler	<u>-0.2 dB</u>
	-4.7408 dB System Loss

ERP of -6.0206 dBk (250 Watts) less the total system loss of 4.7408 dB = -1.2798 dBK or 745 Watts TPO.

Per Section 73.212 (a) 745 Watts rounds to 750 Watts.

Bromo Communications, Inc.
