

## WXPR ANALOG POWER CALCULATIONS

Analog      100 KW ERP 8 bay antenna      Dielectric DCR-C8

Antenna gain	4.31 power gain (PG)	6.3 dB	
Line loss/100 m	0.37		
Line length, loss (LL)	106 m	-0.4 dB	0.91
93.7 MHz filter (FL)		-0.1 dB	0.98
TPO		14.2 dBm	<b>26.0 KW</b>

Calc = 26 kW TPO \* 4.21 PG \* .91 LL \* .98 FL = 99.94 kW (rounded to 100 kW)