

WFBV 90.1MHz

Effectiver Radiated Power Calculations

ITEM	Losses dB
SWR Antenna System Gain into Power Divider	-3.546
Connector Interface: DIN female to DIN male	0.100
6ft Jumper of LDF4 coax	0.037
Connector Interface: DIN female to DIN male	0.100
140ft VXL6 coax	0.364
Connector Interface: DIN female to DIN male	0.100
10ft LDF4 Jumper	0.062
Connector Interface: DIN male to DIN female	0.100
Total Losses	-2.683

Calculation	Power dBW	Power Watts
FM Transmitter Output	28.932	782.00
Total Losses	-2.683	
ERP - Effective Radiated Power	31.615	1450.46

TPO (watts)
ERP (watts)

FCC Power Limits		
90%	100%	105%
703.8	782.0	821.1
1305.4	1450.5	1523.0