

WBDY-LP Transmitter Power Output Calculation

SWR ECFM-2 Antenna Gain – manufacturer’s spec	-0.182 dB
RFS Type LCF-12-50J Transmission Line, 31 meter length	-0.66 dB
Polyphaser Coaxial Surge Protector -- measured loss	-0.20 dB
Microwave Filter Company 18150 External Harmonic Filter loss	-0.25 dB
Times LMR-400 jumpers, 7 meters total length	-0.28 dB
Four connector pairs, assume -0.05 dB each	-0.20 dB
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Total system gain	-1.772 dB

A transmitter power output of 15.0 watts will produce the authorized ERP of 10.0 watts.