

**BARRY MAGRILL, PE**

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RADIO FREQUENCY ENGINEERING

### **TPO calculation for W258BM**

Feed line 7/8" Andrew Heliax:	219' total	-0.819 dB
1/2" Andrew jumper:	3'	-0.020 dB

Connectors 4-sets mating connectors	-0.50 dB
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Iso coupler	-0.100 dB
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Total Loss	-1.439 dB
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Antenna Gain: PSIFML-4A-DA	Total Gain 6.64 dB
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Overall Gain	5.201 dB
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Calculated TPO for 90 W ERP	$90 / 10^{5.201/10}$
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$90 / 3.312 = 27W$