

## ERP / TPO calculations for:

K220IN - Portland, OR

Entered by: Ray Gorney Jr.Date: 10/13/2005

Calculations:

Final

Qty/Lgth (or disc)

db@ (or spacing)

dBd

Watts

**ERP:**  
 Ant. Gain<sup>1</sup>  
 FSJ type Ant jumper  
 LDF type Ant. Jumper  
 LDF4  
 Connectors  
 Polyphaser Loss  
 FSJ Tx jumper  
 other FSJ jumper(s)<sup>3</sup>  
 LDF5-50  
 Filter(s)<sup>4</sup>  
 Combiner<sup>4</sup>  
 Isolator  
**TPO:**

		6.9897
SIR FMC-01		1.5
10	0.0098	0.0980
0	0.0064	0.0000
55	0.0064	0.3520
8	0.0150	0.1200
1	0.1500	0.1500
10	0.0098	0.0980
0	0.0098	0.0000
650	0.00364	2.3660
(Model #)	0	0.0000
M105-90-2TPR-R	1.7	1.7000
T-1030	0	0.0000
		13.3737

**5**  
**ERP**

**TPO**  
**22**

Enter desired ERP in Blue Box and other variables in the Gray boxes; <sup>1</sup> Enter antenna gain as a negative number

<sup>2</sup> Enter either distance between bays or from tower; <sup>3</sup> Enter Total lengths; <sup>4</sup> Enter Total loss

**TPO determined via the direct method using the Translator Power Meter**

328.084 ft / 100 meters

LDF5-50A = .00364 dB Atten./ Foot @ 100MHz