

TPO CALCULATION

Antenna	Antenna Make / Model	SWR FM1 (one bay)	
	Antenna Gain db	(negative gain)	-3.556
Coax	Main Feedline	1/2 Inch Heliax	
	Loss per 100 ft	0.67	
	Length (f)	170	1.139
Coax	Jumper to Combiner	LMR 400	
	Loss per 100 ft	1.216	
	Length (f)	6	0.073
Combiner	Telecom FDCSDC03 Starpoint		
	Combiner insertion loss		0.6
Losses	Other loss 1 - description/dB	1/2 Andrew superflex 15 ft	0.158
	Other loss 2 - description/dB	4 N connector pairs at 0.05dB each	0.2
	Other loss 3 - description/dB	Polyphaser surge arrester	0.1
Output	ERP	100 w = 20 dBw	20
Input			25.826 dBw
			382 watts