Welche Antennenanpassung? Autor HB9BXE (28.Januar 2006)

Vortrag HB9LU

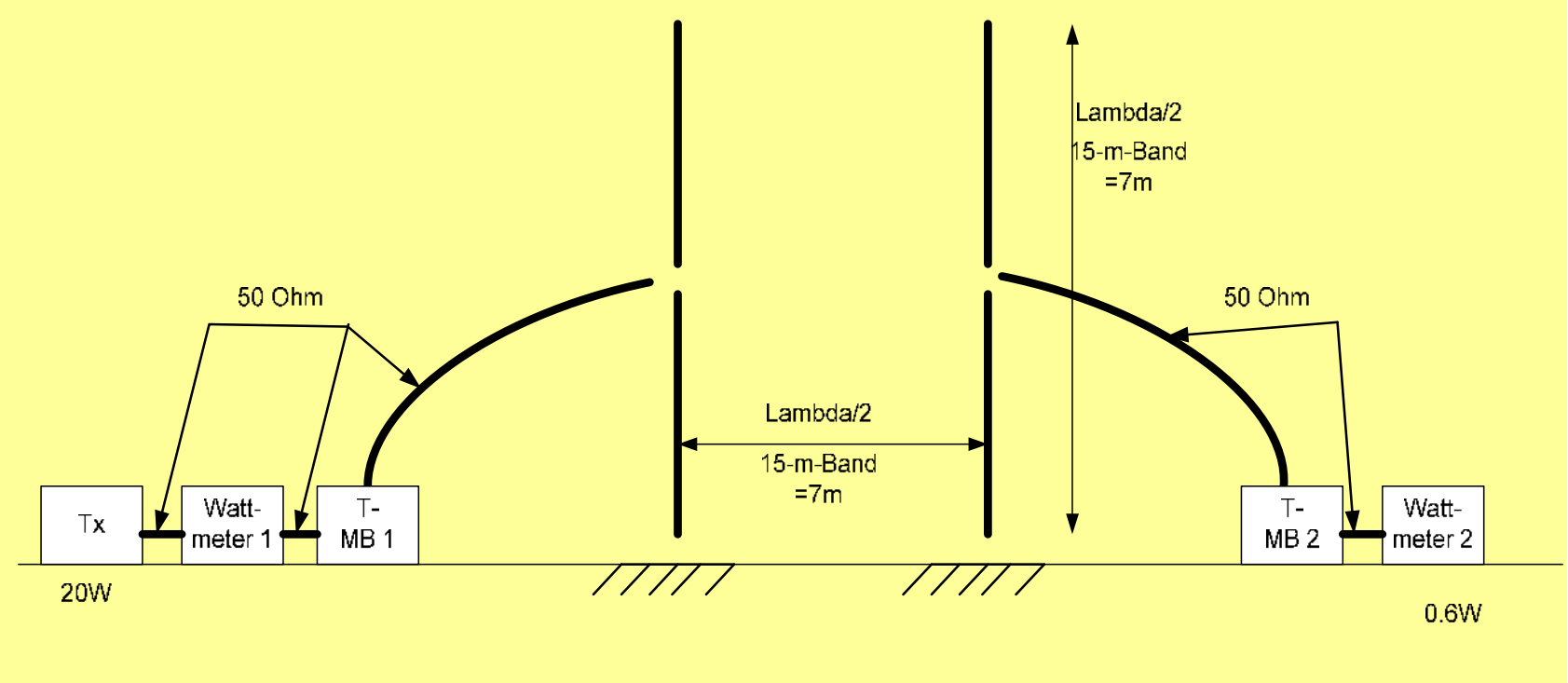
de HB9BXE hans-peter

http://hb9bxe.ch/pdf/Welche Match-Box.pdf

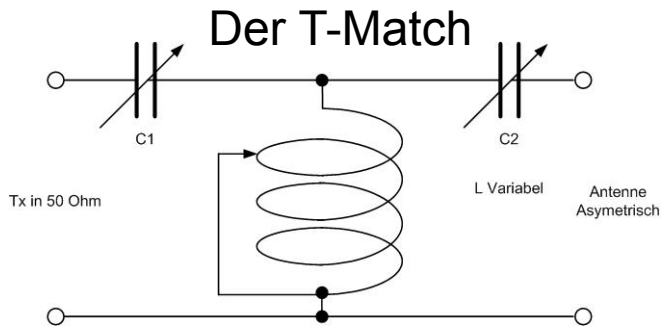
Beweggründe zu diesem Bericht

- Für meine kleine 2004-Expedition zum Kilimandscharogipfel und mit anschliessender Aktivität von Sansibar, AF032, suchte ich jeweils die Optimalste Antennen- Konfiguration.
- Gewicht
- Effizient
- Betriebsicherheit

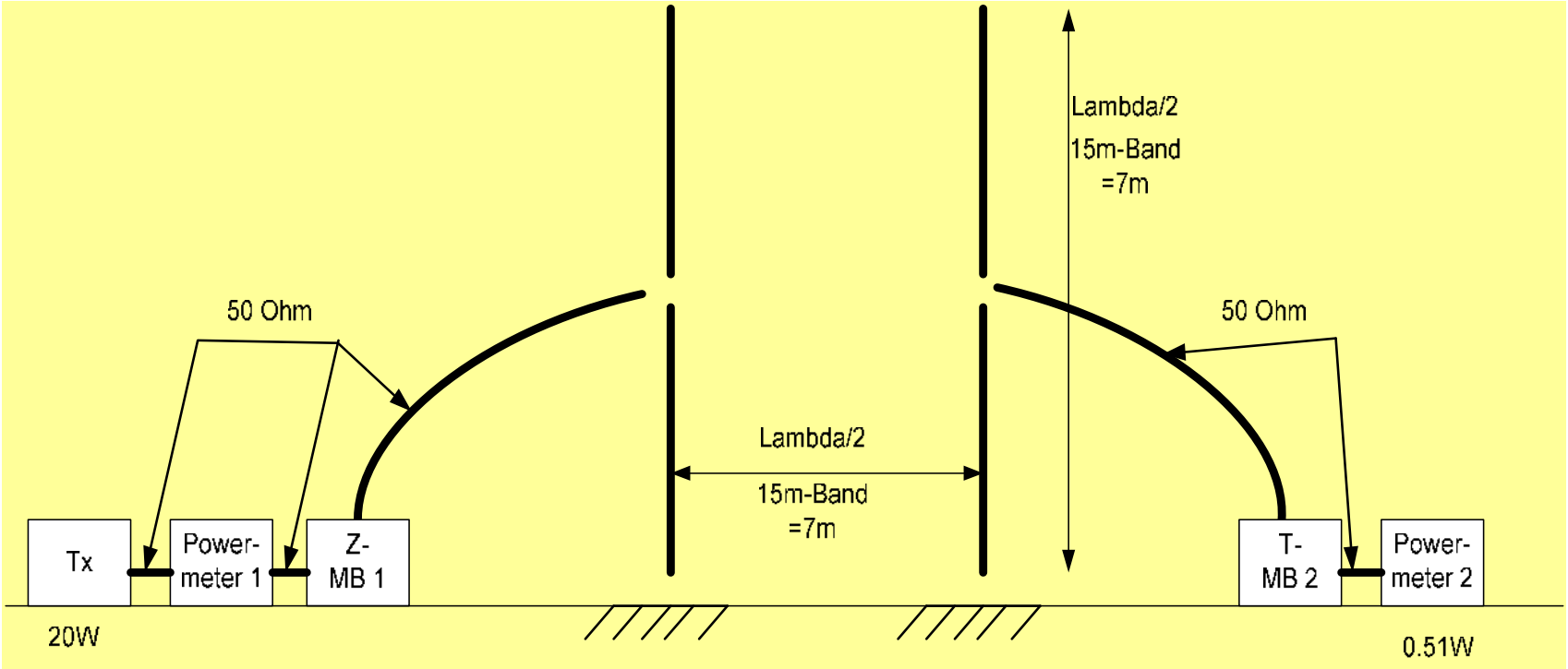
T-Matchbox 50 Ohm zu T-Matchbox 50 *Ohm*



- Input = 20 W
- Output = 0.6W

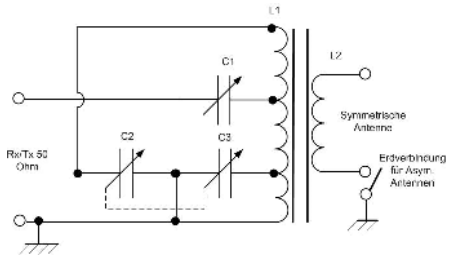


Z-Match 50 Ohm zu T-Match 50 ***Ohm***

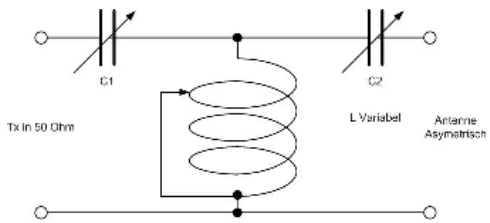


- Input = 20 W
- Output = 0.51W

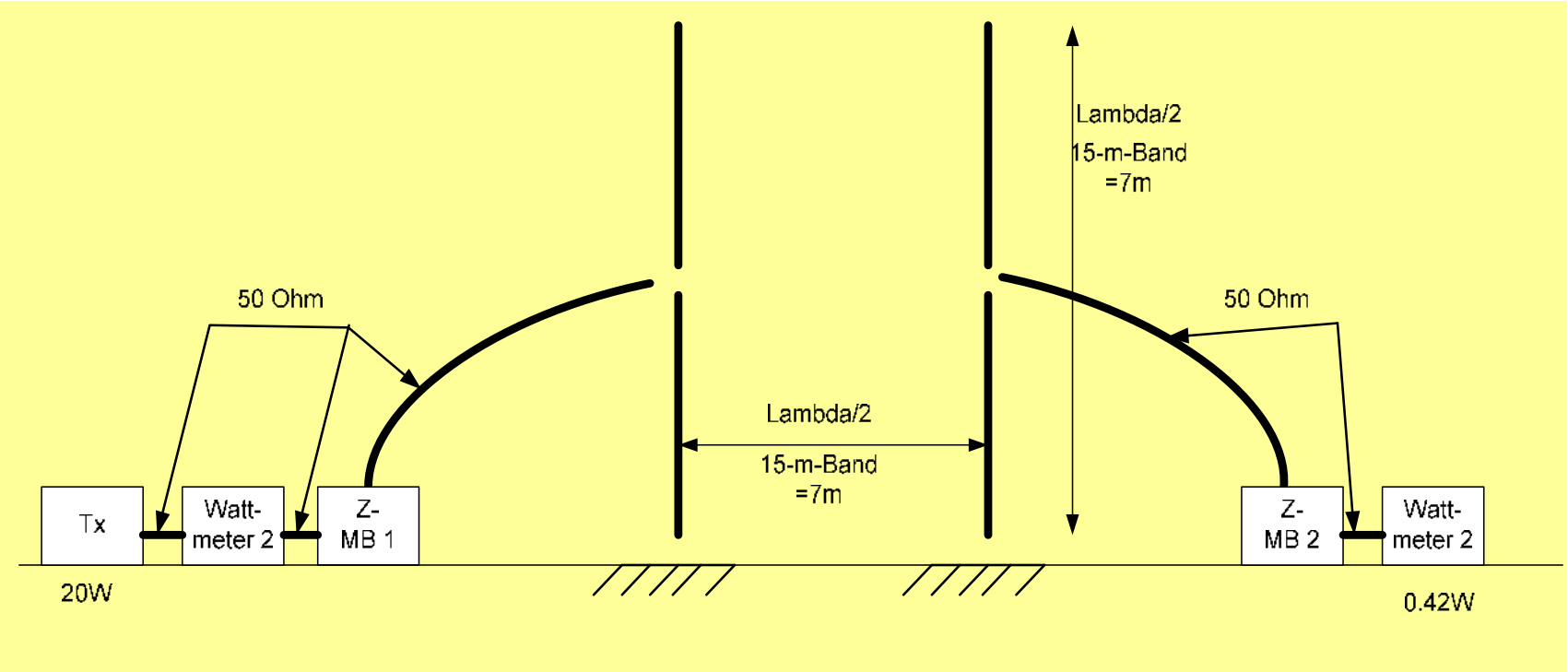
Z-Match



T-Match

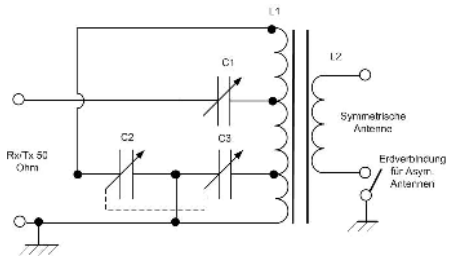


Z-Match 50 Ohm zu Z-Match 50 ***Ohm***

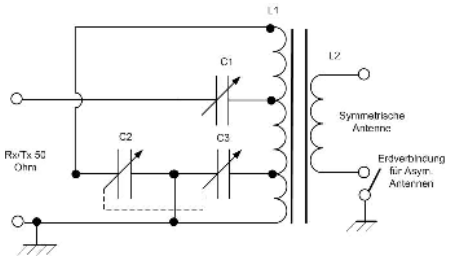


- Input = 20 W
- Output = 0.42W

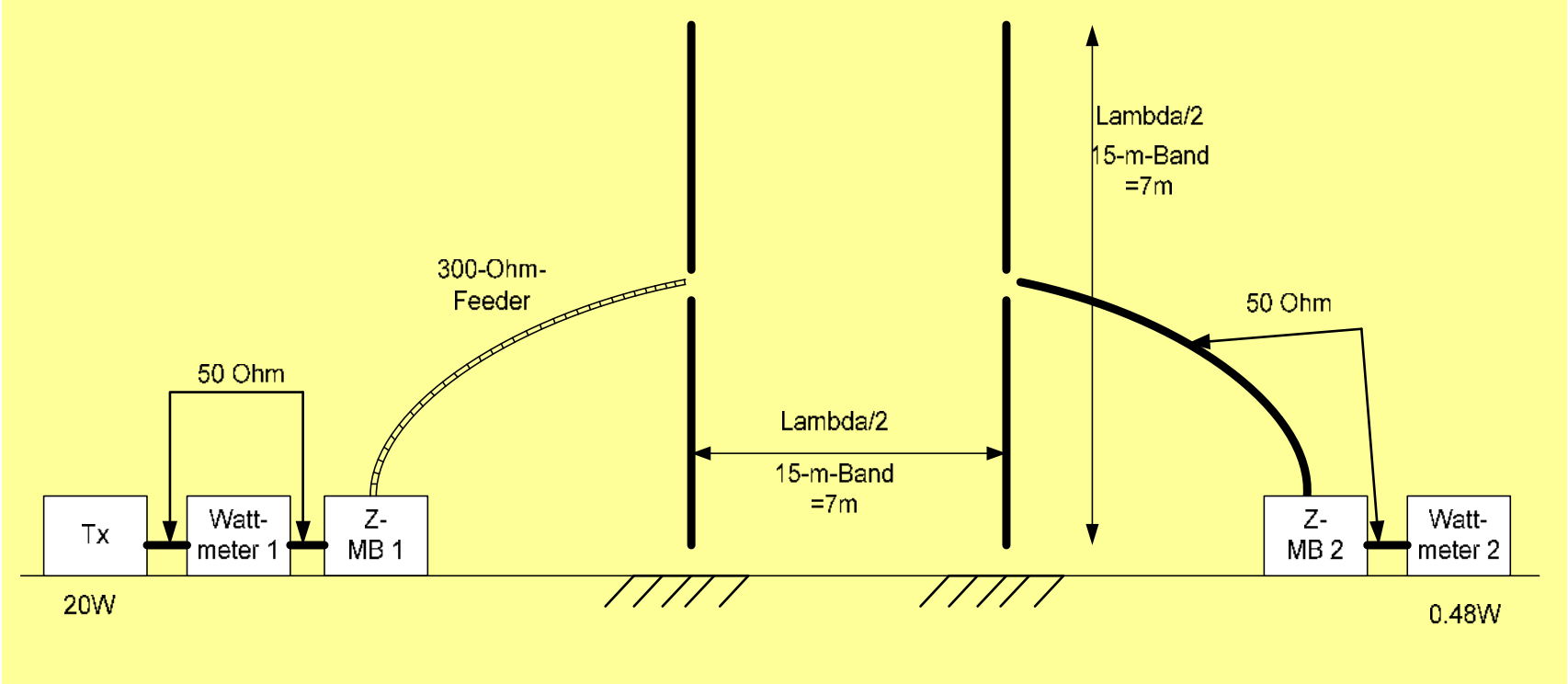
Z-Match



Z-Match

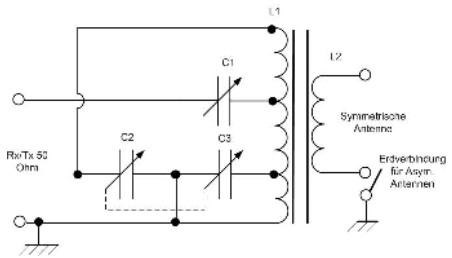


Z-Match 330 Ohm zu Z-Match 50 ***Ohm***

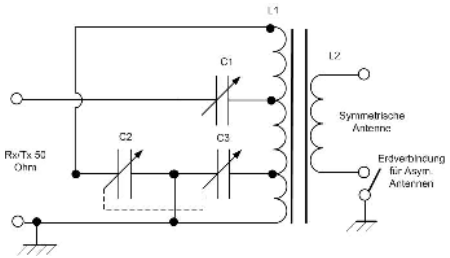


- Input = 20 W
- Output = 0.48W

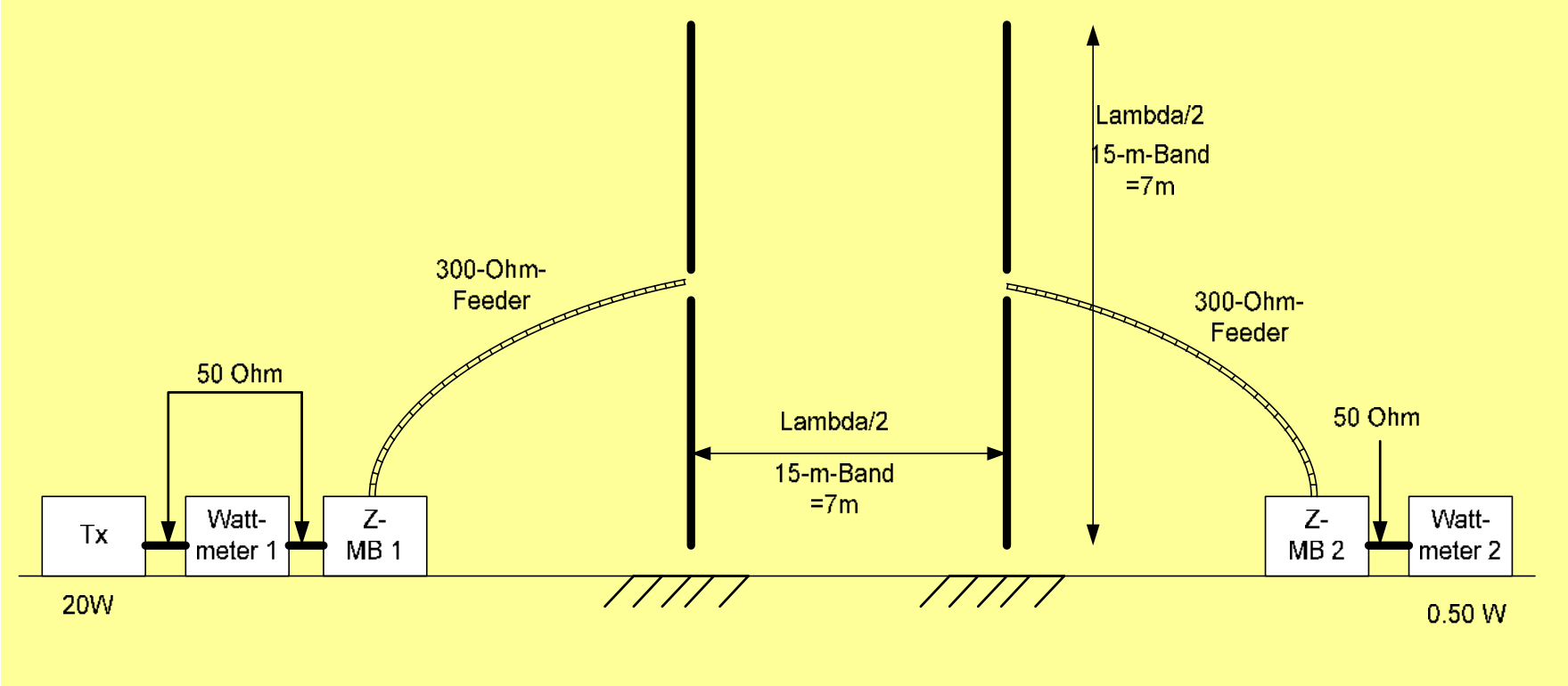
Z-Match



Z-Match

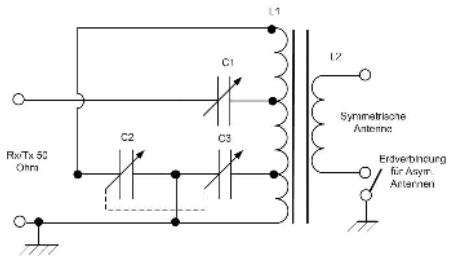


Z-Match 330 Ohm zu Z-Match 300 Ohm

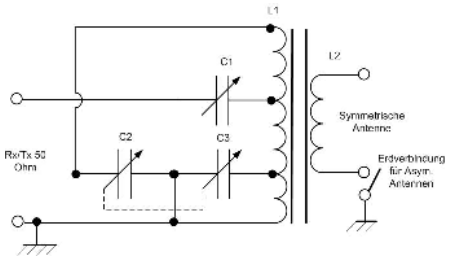


- Input = 20 W
- Output = 0.50W

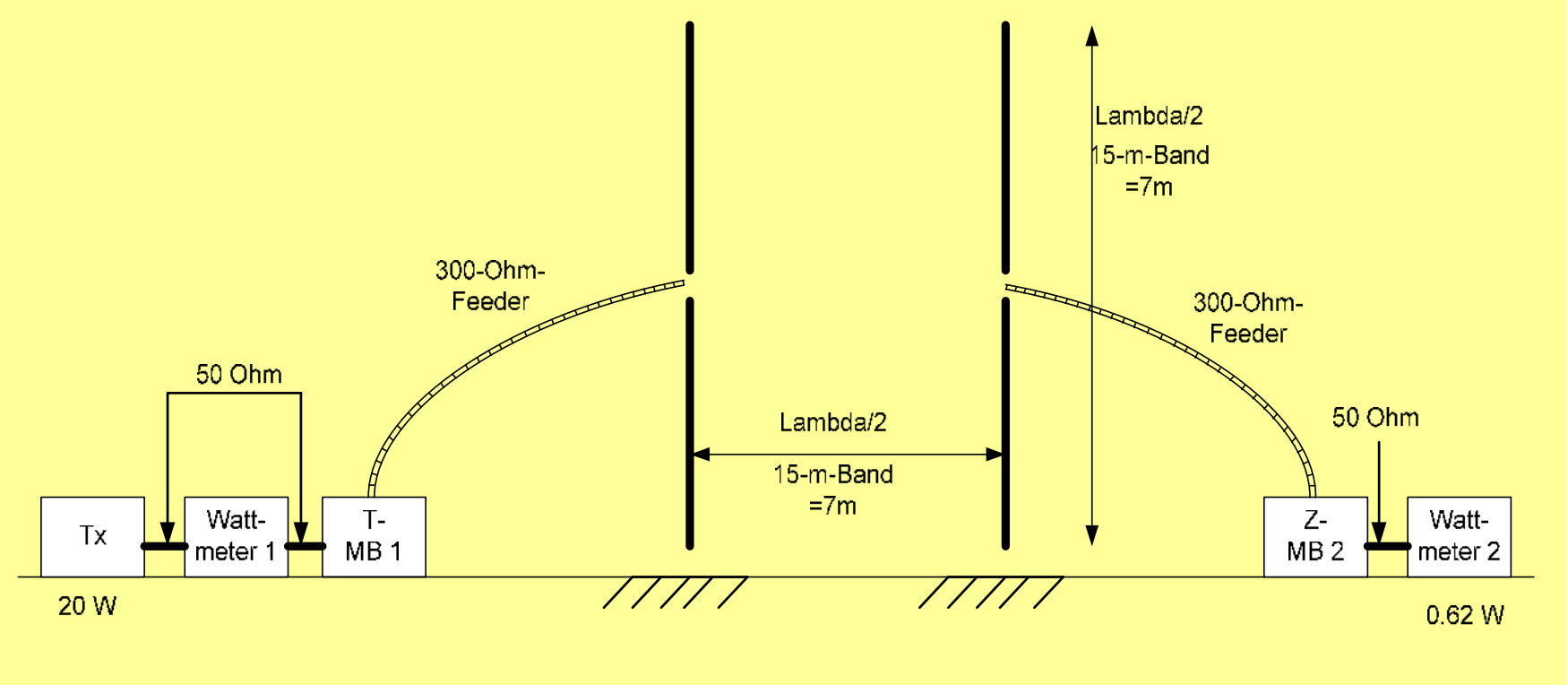
Z-Match



Z-Match

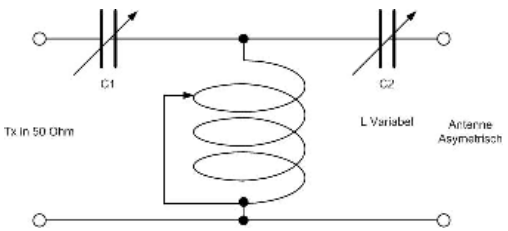


T-Match 330 Ohm zu Z-Match 300 Ohm

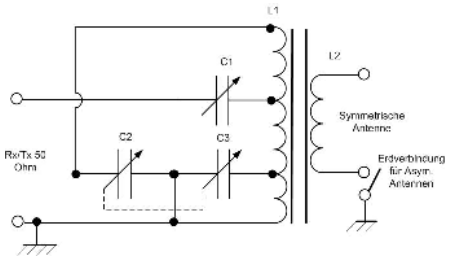


- Input = 20 W
- Output = 0.62W

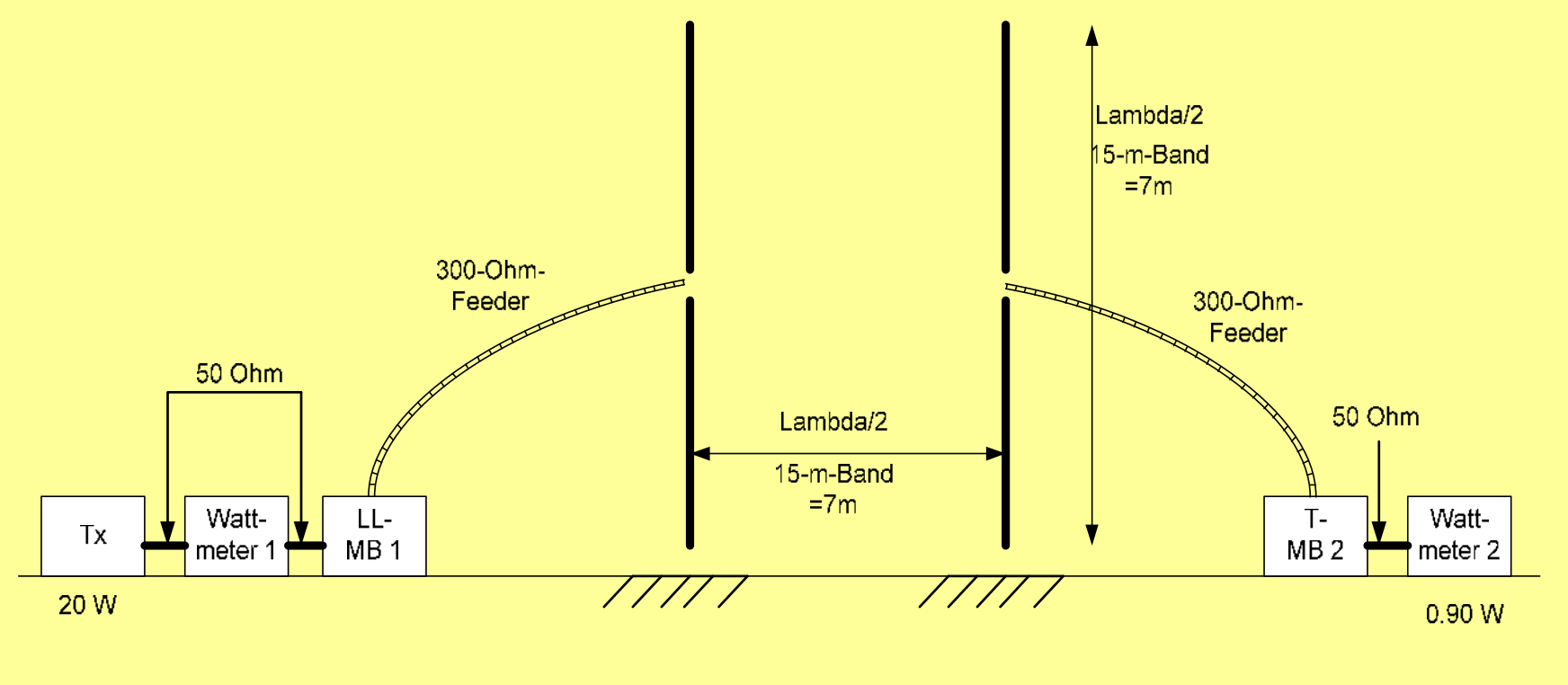
T-Match



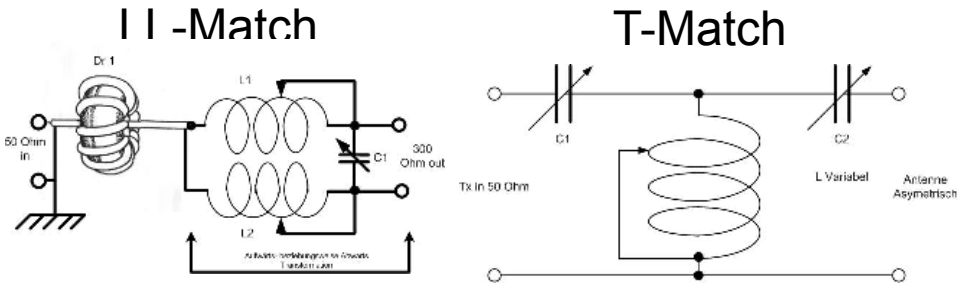
Z-Match



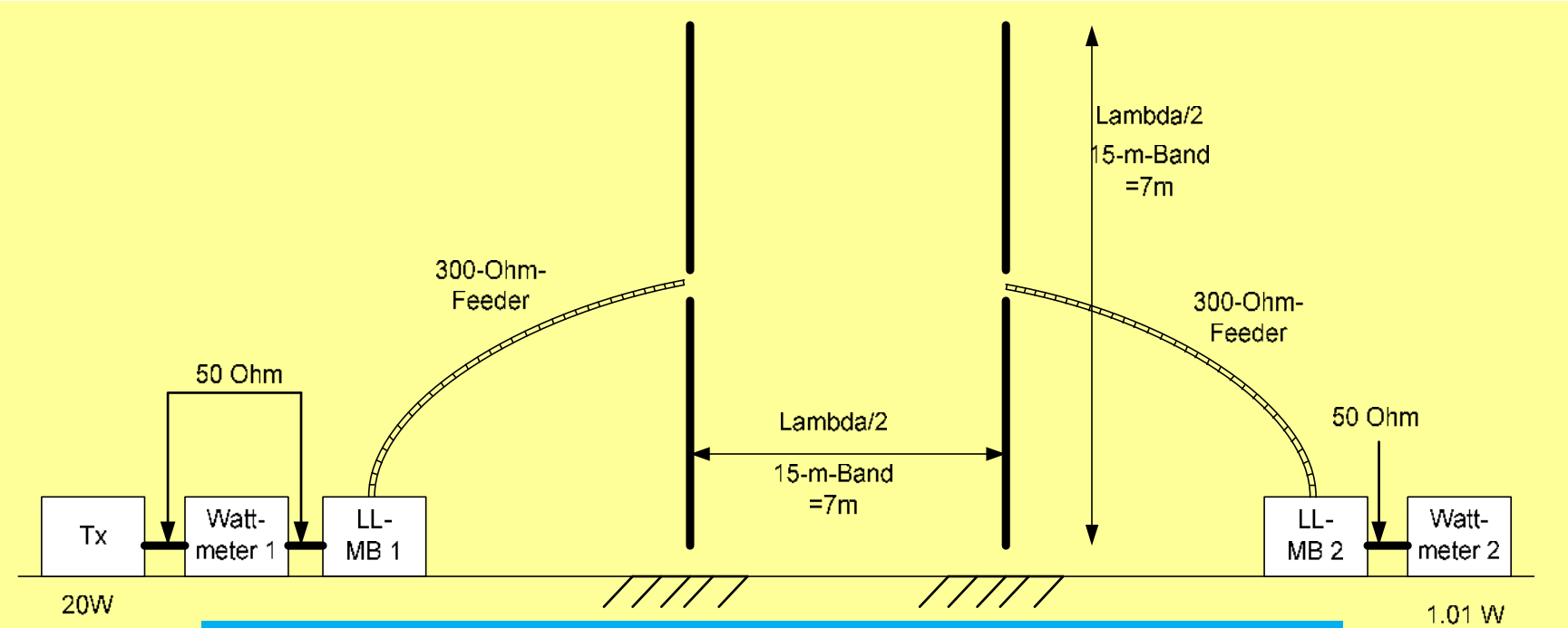
LL-Match 330 Ohm zu T-Match 300 Ohm



- Input = 20 W
- Output = 0.90W



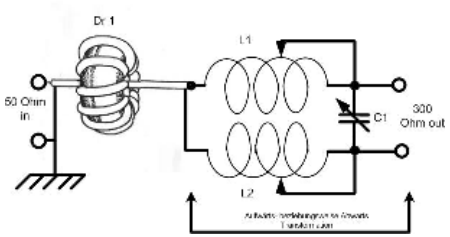
LL-Match 330 Ohm zu LL-Match 300 Ohm



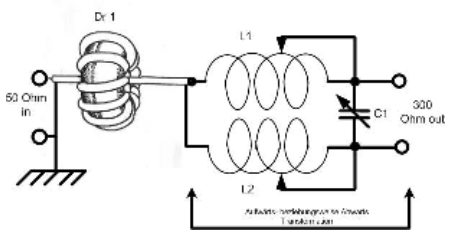
Das ist unsere Referenz, mit dem besten Wirkungsgrad

- Input = 20 W
- Output = 1.01W

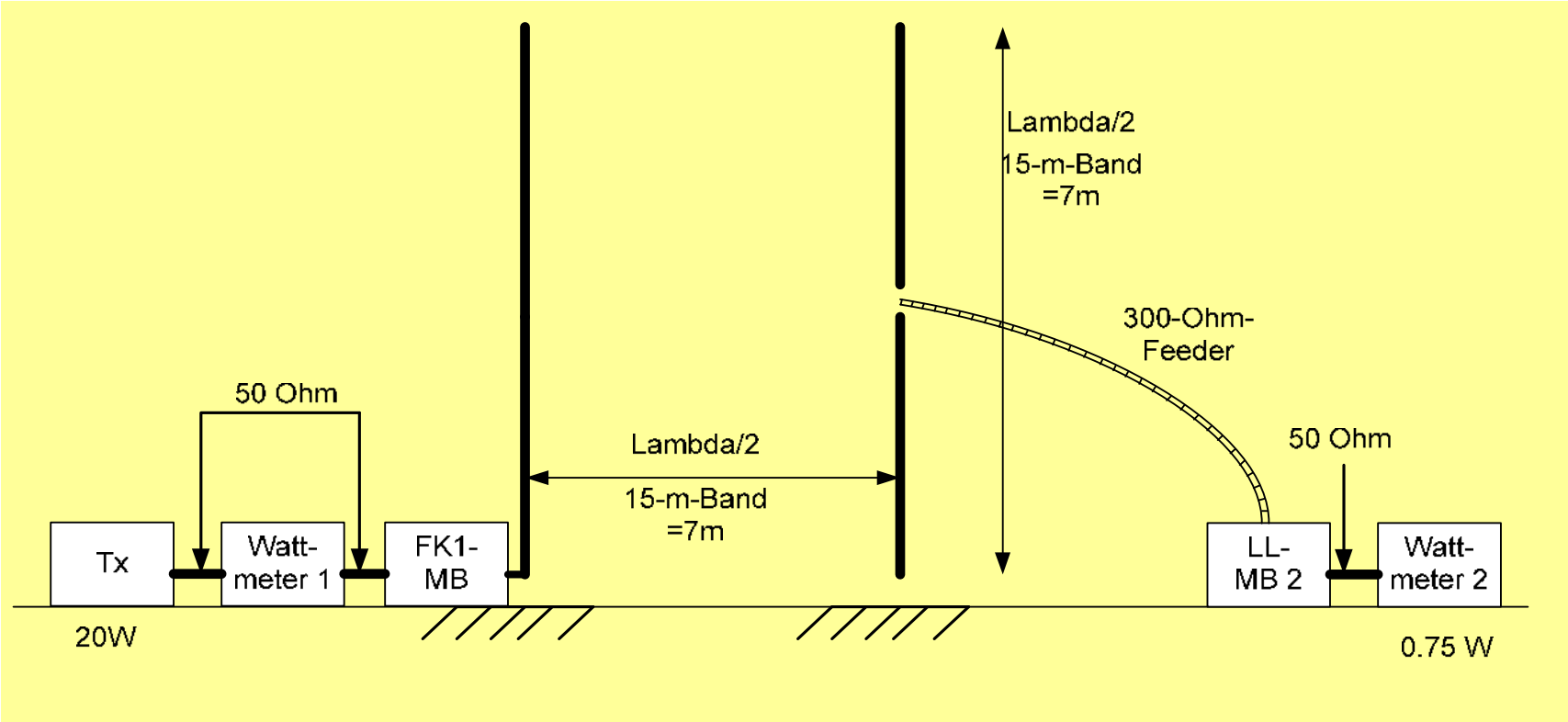
LL-Match



LL-Match

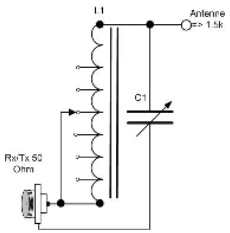


Fuchs-Kreis zu LL-Match 300 Ohm

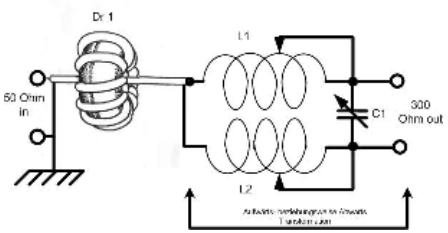


- Input = 20 W
- Output = 0.75W

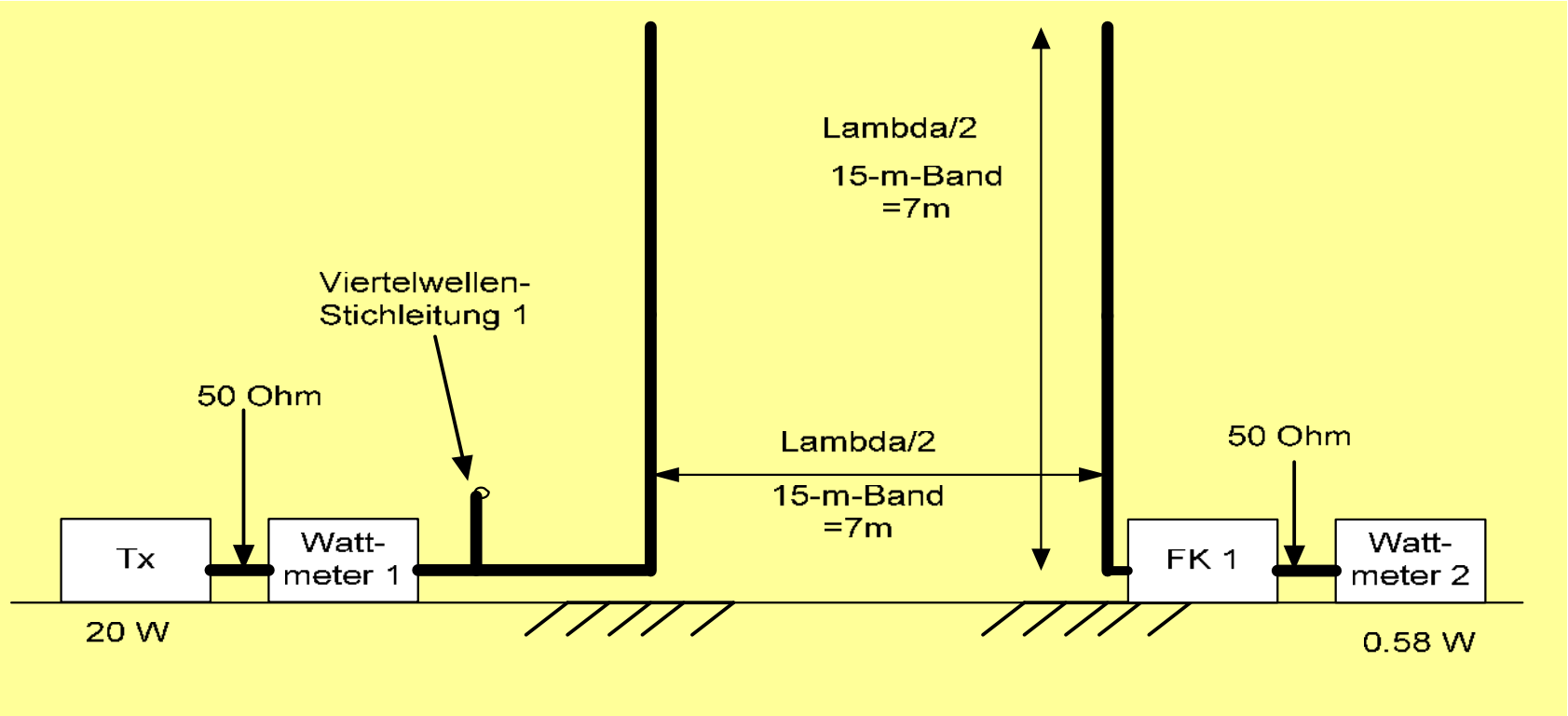
Fuchskreis



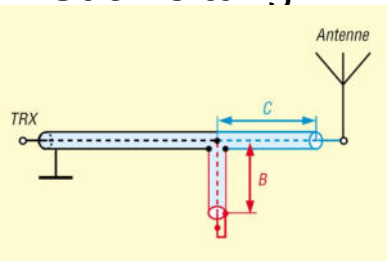
LL-Match



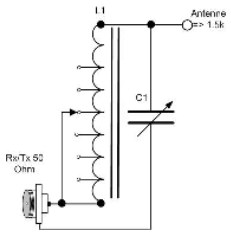
Stichleitung (Kili-Ant.) zu Fuchs-Kreis



Stichleitung

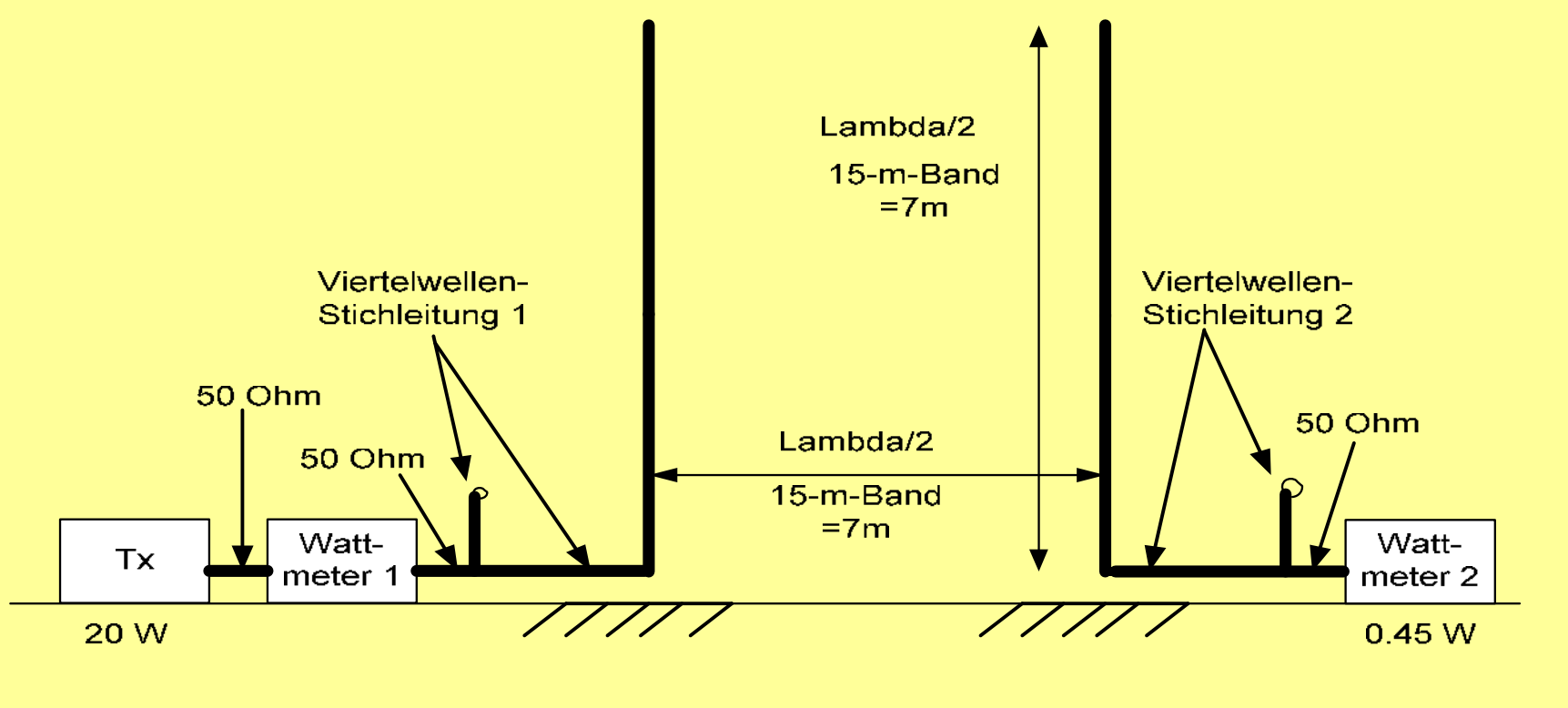


Fuchskreis



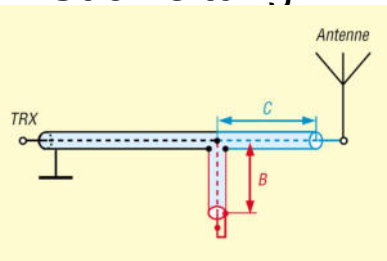
- Input = 20 W
- Output = 0.58W

Stichleitung (Kili-Ant.) zu Stichleitung

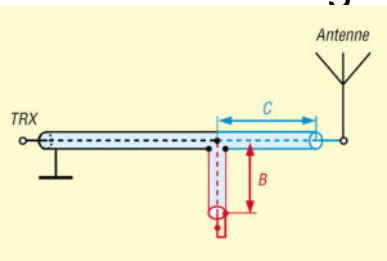


- Input = 20 W
- Output = 0.45W

Stichleitung



Stichleitung



Feldversuch-Zusammenfassung/Übersicht

Doppel-L (Basis, bester η)	100%
T-Matchbox , Feeder gespiesen	81%
Fuchskreis	62%
T-Matchbox, Koaxgespiesen	61%
Z-Machtbox, Feeder gespiesen	50%
Viertelwellen-Stichleitung	45%
Z-Machtbox, Koaxgespiesen	42%

Fragen ?

- Tnx für die Aufmerksamkeit

Die Effizent /2012 die grösten Expedtionen

Ein paar Zahlen-Vergleiche

Expedition	Anzahl Tage QRV	Anzahl Operateure	Anzahl QSO
V84SMD Brunei	12	24 1xHB9	39`310
3B9SP Rodriges	14	9 9xHB9	24`407
PT0S Peter & Paul	12	4	40`922
T30PY West Kiribati	8	10	39`827
P29 Iotoa Exp. PGN	7	5 1xHB9	39`000

	V84SMD	3B9SP	PT0S	T30PY	P29
TG	12	14	12	8	7
Op	24	9	4	10	5
QSO	39310	24407	40922	39827	39000
Effizientz	136	194	853	498	1114

Effizient = QSO / (Op. x Tag)

15`268 QSO mit 30m Fuchskreis