



THIS DIODE PRODUCED 16.38DB ENR WT 6DB PAD @ 3.5MA
10DB ENR WT 12DB PAD
4.24DB ENR WT 18DB PAD

CALIBRATE USING A KU BAND LNB WT KNOWN NOISE FIGURE & 20DB IF AMP & 3 6DB 18GC PADS

USED KU BAND LMB WT .9DB NOISE FIGURE

$$ENR = 10 \cdot \log(10^{(ON-OFF)} - 1) + LNB NF$$

180dB PAD: $4.24\text{dB ENR} = 10 \cdot \log(10^{(5\text{dB}/10)} - 1) + 9\text{dB}$

12DB PAD: $10\text{DB ENR} = 10 \cdot \log(10^{(9.6\text{DB}/10)} - 1) + 9.9\text{DB}$

$$6\text{dB PAD: } 16.38\text{dB ENR} = 10 \cdot \log(10^{(15.6\text{dB}/10)} - 1) + 9\text{dB}$$

NOTE: THE DIFFERENCE APPROX. 6DB AND 12DB

IF NOT CHECK YOUR MATH AND ATTENUATORS

$$DJ = 1N4198$$

Title				NOISE SOURCE TO 12.5 GC			
Size		A		Number		Rev	
Date		12-29--2000		Drawn by		KEVLIN	
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