UFRO 5722 Noise Diode Ouput Temperature Calculation

ref Francisco Reyes's notes

$$T_{gen}=T_0+\frac{e\,I\,R}{2\,k}$$

$$T_{gen}=290+290\,I=290\big(1+I\big) \text{ where } I \text{ is in mA}$$

Measurement of HP amplifiers performed 30-Jun-2013 using UFRO 5722 w/ AJ4CO mods

Stated attenuation is that which is needed on HP 461's to make RSP 15-second average read the same as it does with the 5722 (except for the Flagg unit, which was measured against a different standard).

		SUG Loaner	
	AJ4CO	AJ4CO	AJ4CO
	HP 461A #1	HP 461A #2	HP 462A
dB attenuation	35.2	35.6	33.5
Calculated temp (MK)	68.2	74.8	46.1
	LGM	Jim Brown	Flagg
	HP 461A	HP 461A	HP 461A
dB attenuation	34.1	36.6	N/A
Calculated temp (MK)	52.9	94.1	72.0
	UFRO 461A	Live Oak	"Tucker"
	w/ big atten	HP 462A	HP 461A
dB attenuation	34.9	35.3	35.6
Calculated temp (MK)	63.6	69.8	74.8