

Technomate 的多输出型号

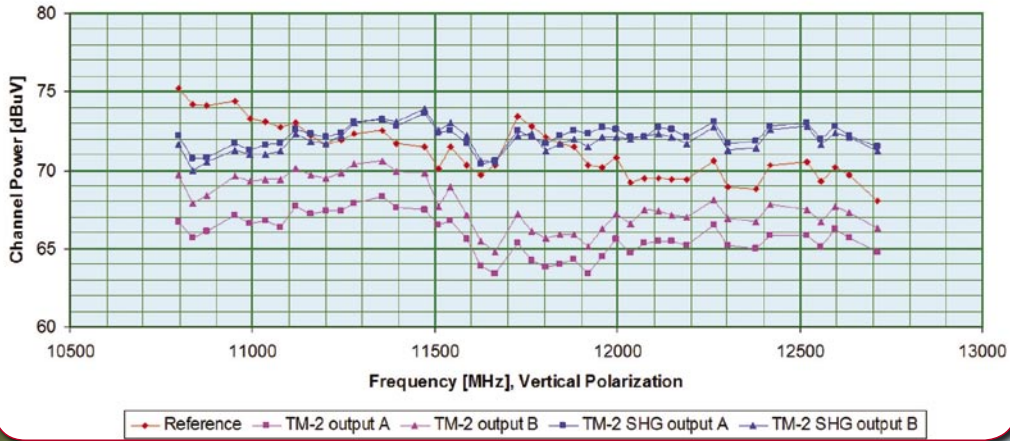
为满足更复杂安装条件的Ku波段LNB

我们已经在之前出版的《国际卫星电视》中介绍了Technomate的单输出LNB。我们曾非常高兴地得到了它们性能非常出色的这一结论。然而Technomate还生产多输出LNB。他们同样出色吗？我们拿到了它们的双输出、四输出、四输出（独立单频单极化）和八输出模块来进行评估。

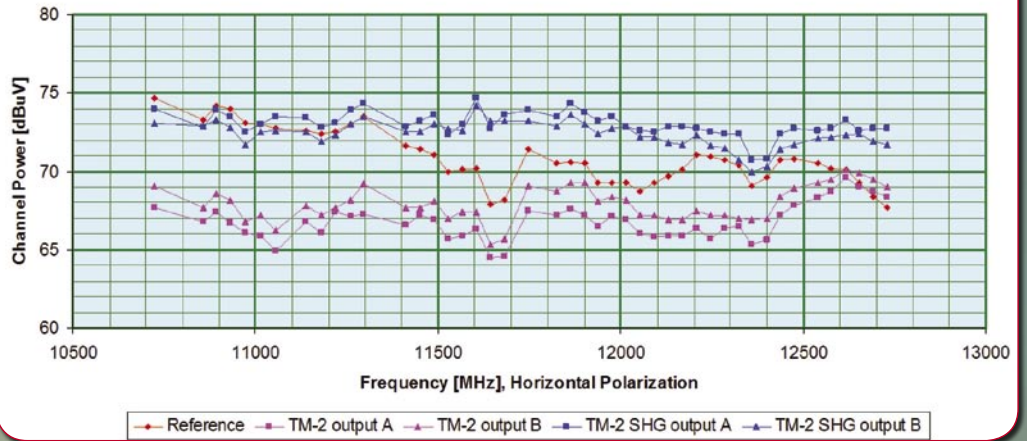


Technomate

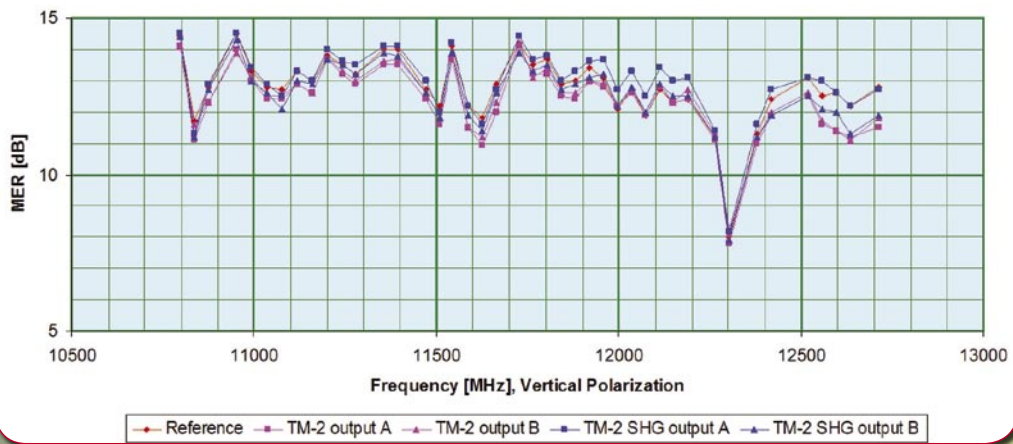
Twin LNB's



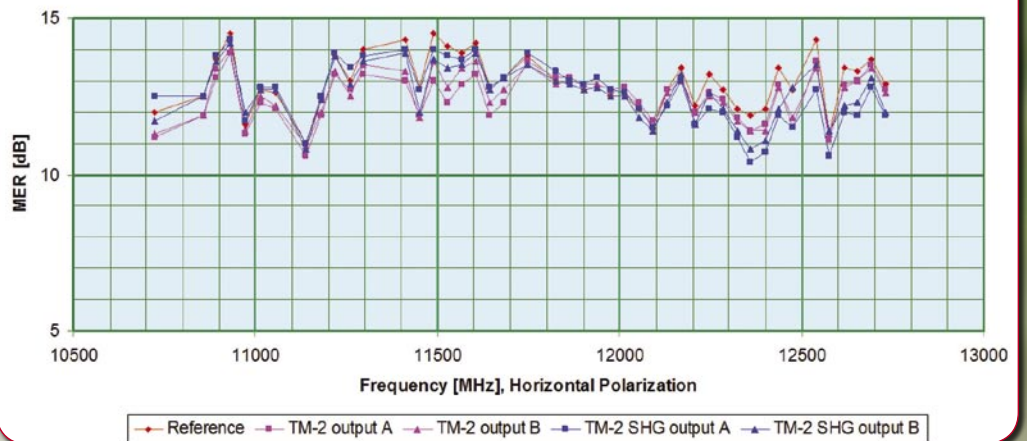
Twin LNB's

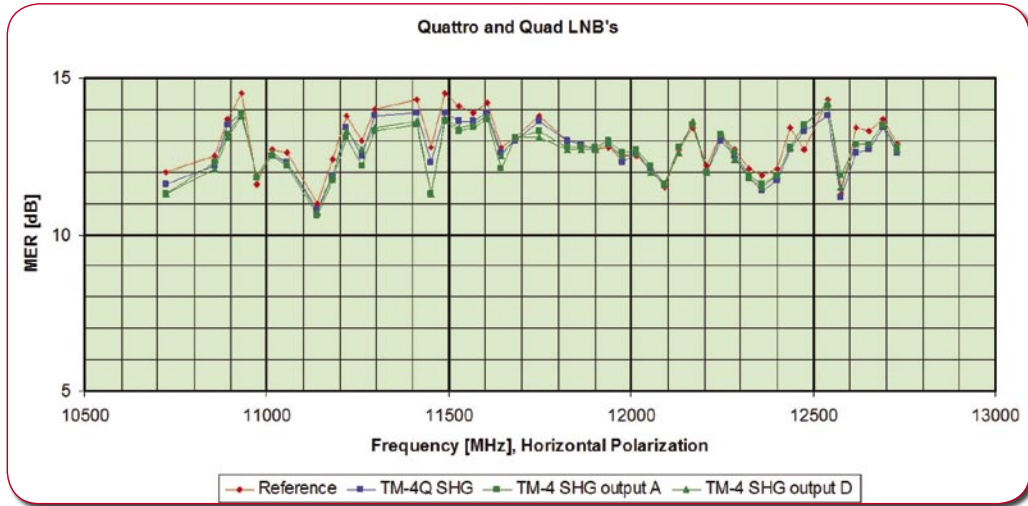
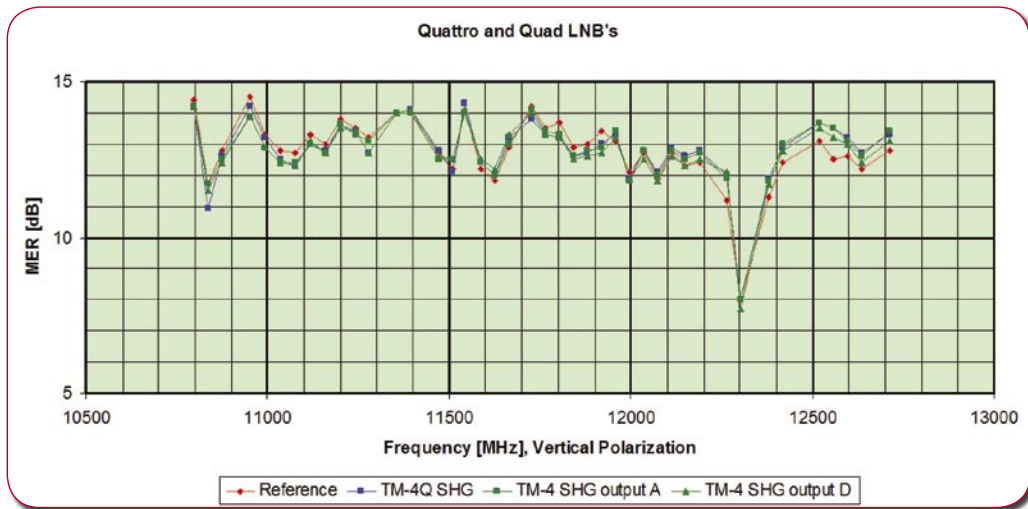
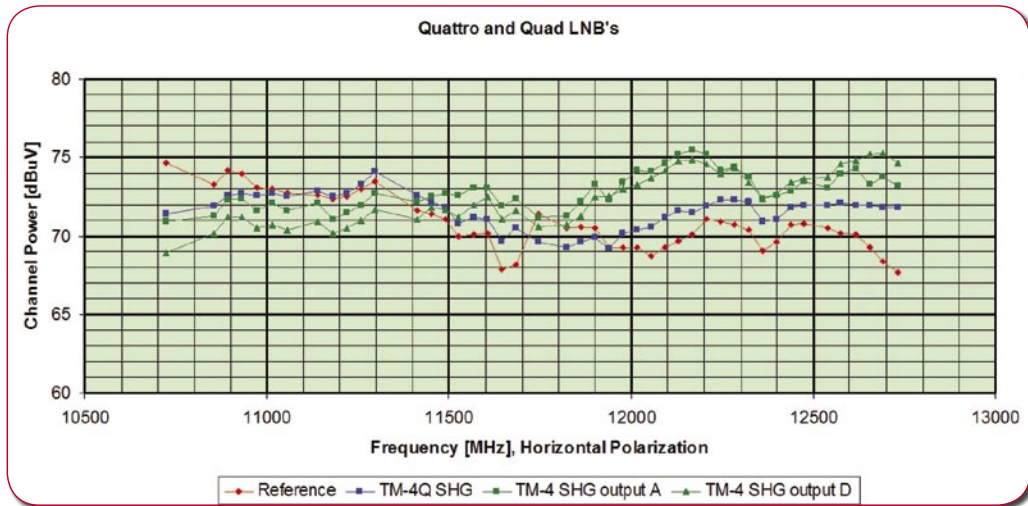
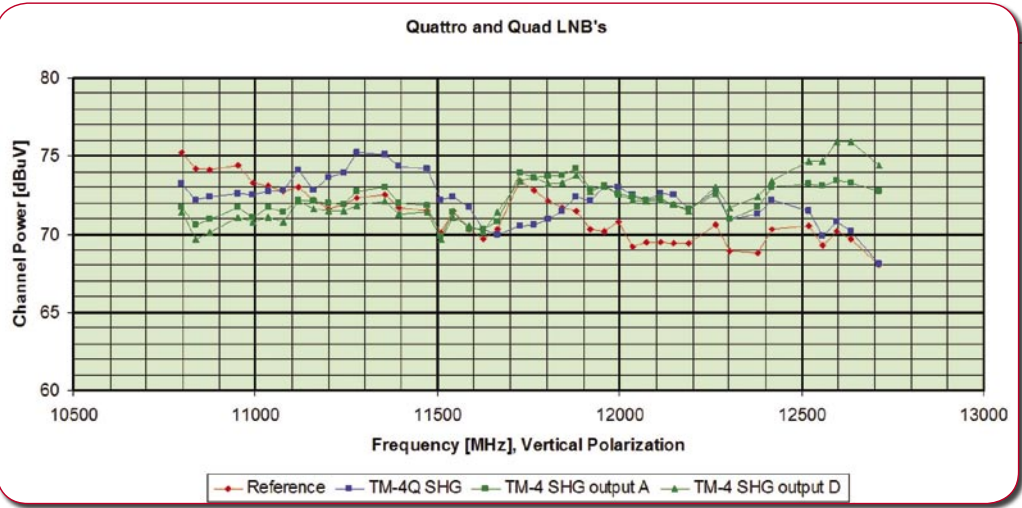


Twin LNB's



Twin LNB's

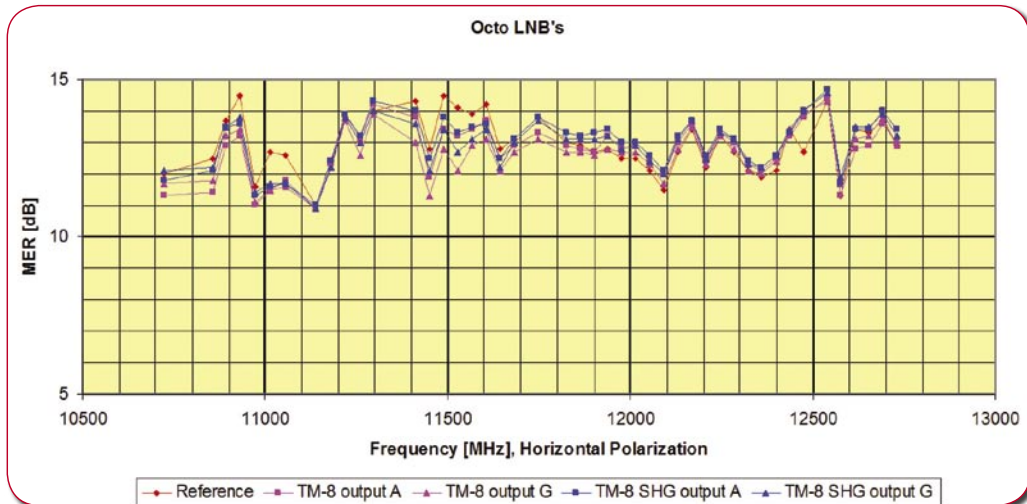
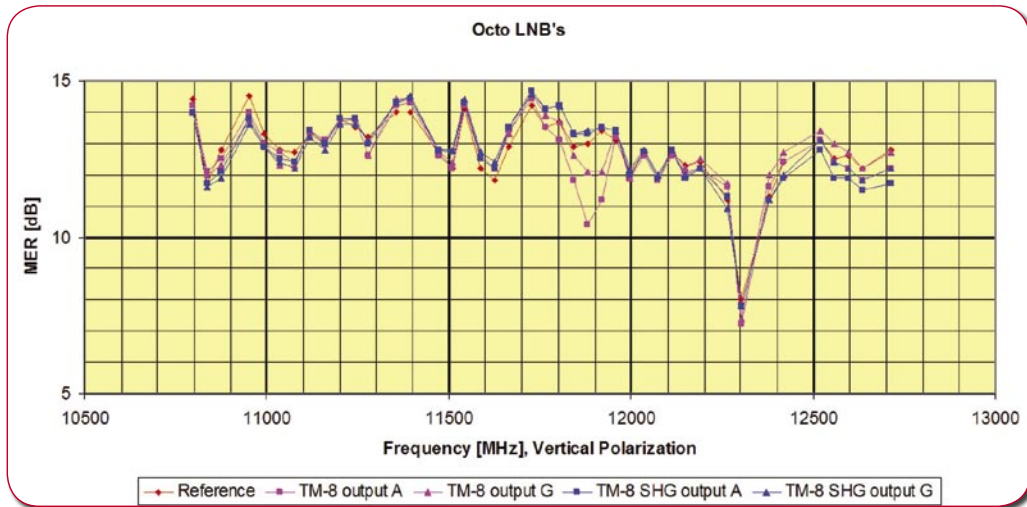
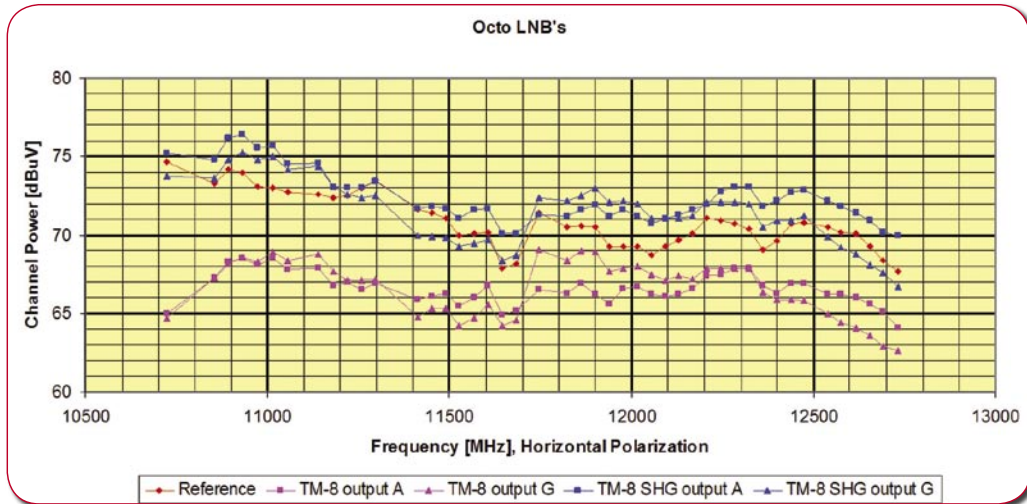
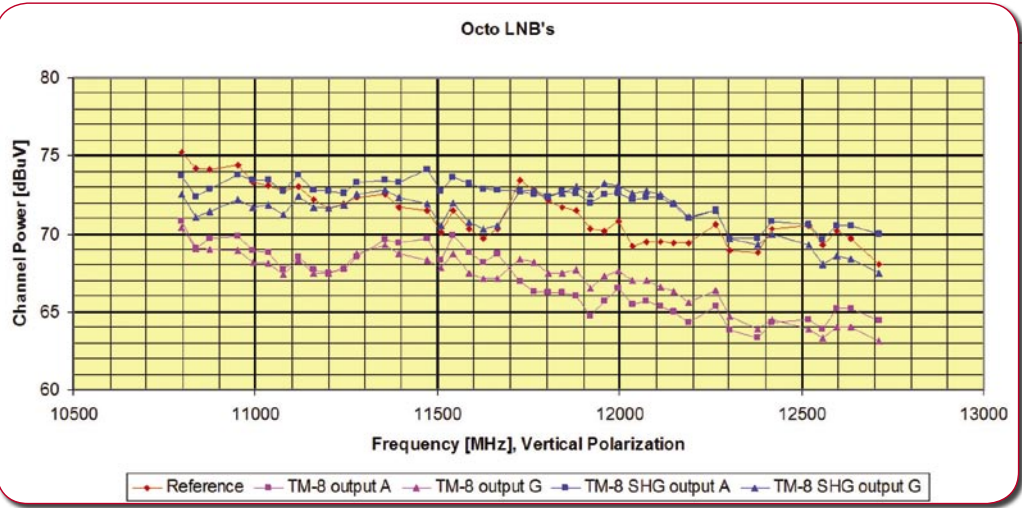




我们知道这些LNB并不能像他们的单输出型号(TM-1)那样优秀。但是我们仍然或多或少地保持着我们之前对其优秀的单输出全频段LNB测试时的良好印象。目前市面上并没有太多的产品性能能够与其相比。

双输出LNB是我们最先测试的。TM-2是标准的双输出型号(0.2dB), TM-2 SHG(高增益)是这一产品的低噪声高增益输出型号(0.1dB)。确实,各位读者可以从图上看到高增益型号的衰减为2dB,明显高出对照组的标准型号的3dB。此外,高增益型号还在对某些转发器(并不是所有的转发器)的噪声方面表现出来优越的性能。仅仅在高频段水平极化下,标准型TM-2会表现得稍微好那么一点点。但是无论如何,所有这两种型号都在双输出LNB领域中拥有出色的表现。同样,两个输出端仅有及其微小的差别。

在结束了双输出LNB的测试之后,我们开始了四输出LNB和四输出(独立单频单极化)的型号的测试。我们采用了与双输出LNB相同的测试:与LNB增益相关的信道功率和与LNB输出端信号质量相关的误码率。这一次,我们只测试了高增益版本的TM-4(普通四输出)和



TM-4Q (独立单频单极化)两个型号。我们首先测试了普通四输出四个输出口的差别。特别是在误码率方面,这两个型号的LNB都击败了我们选择的对照产品。再次重申:这是一个非常好的结果。

最后是对八输出的测试。我们采用了标准的TM-8和高增益的TM-8进行测试。就像我们所期望的那样,通过高增益LNB所得到的信号要强一些。但是所有的信号都比我们选择的对照产品要略强一些。同样,高增益型在信号质量上面表现要优越。但是,需要重申,所有的两个被测型号和我们的参考产品上的差别都非常小。

我们可以得到这样的结论——Technomate的LNB是我们实验室当中测试过的迄今为止最棒的一款LNB。超高增益型好也确实对信号的放大起到了一定作用,特别是在连接至多台接收机的时候,这款型号将是一个不错的选择。





SM-2500



1. signal lock by LIGHT and TONE alert, show the detailed parameters of the signal



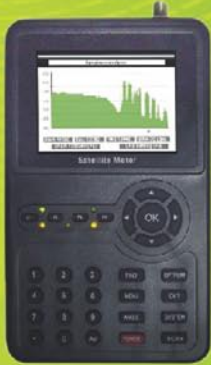
2. Spectrum analyzer function: max signal hold and TP search



3. Auto-calculate the AZ, EL and angle of LNB polarity



4. AV Input and output output can be for TV, input can be used as monitor of CCTV



SM-3500

**SM-3500 digital satellite meter
the professional REAL TIME
spectrum analyzer,
with smart search function**



SM-800

Trimax Technology Limited

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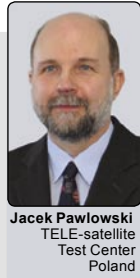
E-mail: sales@trimaxtec.com

专家意见

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在信号质量方面,与单输出LNB相比,这是几款非常好的多输出LNB。超高增益LNB能够给出比普通版本LNB更高的输出增益(大约5dB)。在使用长电缆的地方,您应当选择这种型号。在同样的安装条件,但仅仅需要短电缆(10-20米)的条件下,标准版本的LNB应当表现得同样出色。所有的模型都采用F型接头。各个输出端所表现出来的差异非常细微。其制造工艺确实非常精湛。

-
0.1dB的噪声系数似乎有些美中不足



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Available online starting from 29 January 2010

TECHNICAL

DATA

Manufacturer	Technomate
E-mail	info@technomate.com
Website	www.technomate.com
Function	Universal multiple LNB's for Ku-Band
Models	Twins: TM-2 and TM-2 Super High Gain Quad: TM-4 Super High Gain Quattro: TM-4Q Super High Gain Octo: TM-8 and TM-8 Super High Gain
Input frequency	10.7~12.75 GHz
Output frequency	0.95~2.15 GHz
LOF's	9.75 and 10.6 GHz
LO temperature drift	±2 MHz (-40~+60° C)
LO Phase Noise	-60 dBc/Hz @ 1kHz offset -80 dBc/Hz @ 10 kHz offset -100 dBc/Hz @ 100 kHz offset
Noise figure	0.2 dB (standard models), 0.1 dB (Super High Gain models)
Conversion Gain	50-56 dB (standard models) 55-62 dB (Super High Gain models)
Gain flatness characteristics	5 dB over entire band
1 dB output compression	0 dBm min.
LO spurious	-60 dBm max.
Intermodulation (1.7 GHz)	-60 dBm max.
Image rejection	40 dB min.
Cross polarization isolation	20 dB min.
Port-to-port isolation	20 dB min.
Reflector type	Offset
F/D ratio	0.6
Operating temperature	-40~+60° C