

An Even Better Line Isolator

T-5G

A T-4 Plus and a T-6* VHF Line Isolator in one case



Prices and specifications are subject to change without notice.

\$53.95

T-5G Specifications

Type	Current
Ratio Input/Output	1:1
Design Impedance	50-ohms
Internal XMSN line	50-ohms
Bandwidth	160-2 m
Winding Z @ 3.5 MHz	>75K
Winding Z @ 14 MHz	>50K
Winding Z @ 50 MHz	>1000 ohms
Coefficient of coupling	100%
Phase delay @ 3.5 MHz	6.2 degrees
Power loss in dB	Nil
Power rating	4000 watts *
Input connector	SO-239 ST
Output connector	SO-239 ST

* Power rating with SWR < 3:1 SSB/CW duty cycles. CW/SSB duty-cycle only. Not rated for high power AM, RTTY or high duty-cycle digital modes.

Added Isolation at VHF frequencies

The incredible T-4G has been further upgraded through the use of special ferrites and winding techniques which extend the T-5G's isolation into the VHF spectrum. This is important with today's solid state transmitters which use broadband output amplifiers. Wideband power amplifiers often produce energy from the low HF frequencies to the VHF region. Filters are used in the output stages to reduce this RF energy to tolerable levels, but the filters in the transmitter are only so good, and problems are exacerbated when ground loops develop around the communications system. The T-5G solves this problem by helping break up ground loops and keeping RF off the coax's shield well into the VHF spectrum. The result is a cleaner communication system and less interaction between HF and VHF equipment. The T-5G is used with HF equipment. *The T-6G is a VHF Line Isolator and is available only on special order.*

Why two ground straps?

In communications equipment, signals travel in two directions. The receiver can pick up trash collected by a coax cable's shield acting as a random length antenna. The ground strap nearest the antenna provides a direct path to ground for RF impressed on the shield from outside sources.

When transmitting, if the transmitter is not well grounded, unwanted RF can appear on the station's ground system and be conducted and radiated by the coax's shield. Thus, for maximum isolation, two ground straps are used.

If the T-5G is used in conjunction with earth ground systems, it is best to provide each ground strap with its own ground rod. This is not essential and both ground straps can be connected to one ground rod, if necessary.

If the T-5G is used at the transmitter end of the coax, ground the transmitter end of the T-5G directly to the transmitter's ground and the other end to your ground system.

What we are doing here is to provide a direct path to ground, eliminating the condition where one end of the Line Isolator is looking at a very high inductive reactance before going to ground.

The best parts, the best design

Only the best parts are used in the T-5G, including special ferrite cores, Teflon insulated wire, and silver plated, Teflon insulated connectors.

*T-6 Line Isolator

The T-6 Line Isolator is our high quality, high isolation VHF Line Isolator. It extends the effective range of the T-5G beyond 150 MHz. The T-6 is no longer a stock model since the T-5 offers the same VHF coverage.