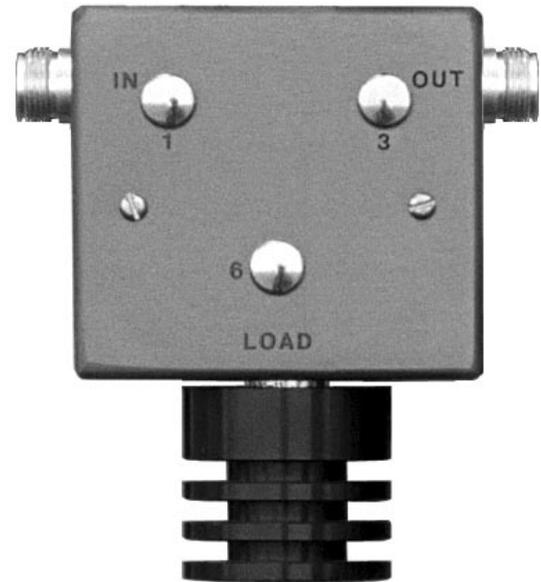


T-4530

SINGLE STAGE FERRITE ISOLATOR

Telewave Ferrite Isolators prevent intermodulation, and protect the transmitter output from high VSWR or mistuned filtering devices by providing a constant 50 ohm impedance. All Telewave isolators are manufactured and tested in our own plant to the highest quality standards. Standard isolators handle up to 150 watts of continuous power, with several different load options. All isolators feature removeable loads, and a 35 watt load is included in the basic configuration. Typical tuning range is up to +/- 6 MHz from the original center frequency, and typical isolation is 35 dB.

NOTE: Isolators have limited bandwidth and tuning range. Each isolator is manufactured for a specific range and tuned to a specific frequency. Please specify the exact desired operating frequency and special load requirements with the order.



BENEFITS

Under adverse conditions, the isolator performs several critical functions:

Antenna failure - Broken antenna, shorted or open cable, high VSWR

All of these conditions will cause large amounts of power to be reflected down the transmission line toward the transmitter. The circulatory property of the isolator will direct this energy to the load port, and protect the transmitter. The load on the isolator must be capable of handling full transmitter power. Age, water invasion, and incorrect cable length will also cause impedance changes. The tuned ports of the isolator provide a constant 50 ohm impedance for the transmitter to avoid overheating and oscillation.

Intermodulation

When in-band or out-of-band RF energy from a strong nearby signal source couples into the transmitter, mixing with the primary frequency often occurs, resulting in the radiation of new, undesired signals. The isolator antenna port will reflect out-of-band energy back to the antenna. In-band energy enters the isolator, and is directed to the load. No energy from nearby transmitters enters the primary transmitter, and no intermodulation will occur.

SPECIFICATIONS:

Frequency band	406-512 MHz	Impedance	50 ohms
Tuning range (typ)	12 MHz	Load included	(1) 35 W
Isolation (min)	30 dB	Connectors	N-Female
Isolation (typ)	35 dB	Temperature range	-30 C to + 60 C
Insertion loss (typ)	0.4 dB	Dimensions (H x W x D)	2" x 3" x 3"
Input power (cont)	150 W	Weight	3 lb
VSWR (typ)	1.25:1		

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