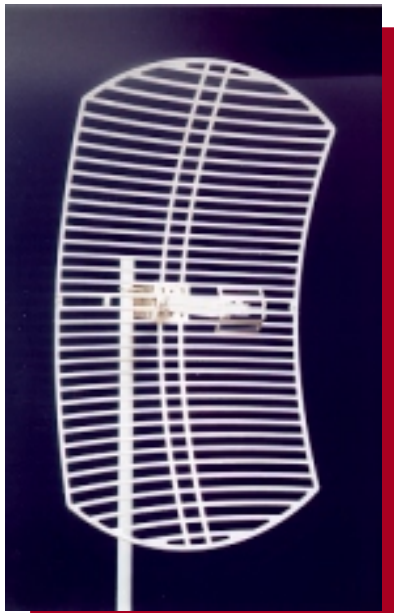


# INTEGRATED RECEIVER

**Models 5445/5435 (36dB Gain)**  
**5446/5436 (32dB Gain)**  
**5447/5437 (20dB Gain)**

**INTERCHANGEABLE INTEGRATED FEEDS  
WITH  
MODELS 18 AND 26 ANTENNAS**

**Models**  
**18T-5445/5446/5447\***  
**18T-5435/5436/5437\***



**Models**  
**26T-5445/5446/5447\***  
**26T-5435/5436/5437\***

## POWER SUPPLY/INSERTER OPTIONS

Model	Type	Cycles
PS-1341	120V	60Hz
PS-2342	220V	50/60Hz

\*This product may be covered by one or more of the following U.S. Patents:  
5,202,699, 5,300,941, 5,394,115, 5,402,138, 5,448,255, 5,313,220  
U.S. & Australian Patents Pending

**CONIFER CORP. 1400 N ROOSEVELT BURLINGTON, IA 52601**  
**800-843-5419 (U.S.) 319-752-3607 (Int l) 319-753-5508 FAX**  
**www.conifercorp.com email: conifer@conifercorp.com**

## MAG GRID SERIES Brickwall Filtering

**FILTER FIRST** approach that provides brickwall protection for downconverters. As new wireless services such as PCS, WCS, Radar, and LAN emerge, the PRE-LNA rejection will eliminate overload or interference from out-of-band frequencies.

## FEATURES

>100dB PRE-LNA PCS rejection.

>60dB PRE-LNA WCS rejection.

Selective RF filters for each band provides excellent image frequency and IF rejection.

High IF filter provides an additional level of filtering which allows the output to be combined with other off-air-signals without expensive post filtering.

Patented ultra low phase noise circuit for use with digital compression.

>120 dBc/Hz @ 1 MHz

>107 dBc/Hz @ 100 KHz

>93 dBc/Hz @ 10 KHz

*NEW* improved cross polarized signal rejection.

Improved feed VSWR produces a higher signal-to-noise-ratio.

High impact ABS housing with UV inhibitors establishes a new standard for sealing electronics against moisture, salt spray, etc., while blocking the harmful effects of ultraviolet rays.

State-of-the-art die cast magnesium alloy chassis serves as the backbone of an integrated design that provides unmatched RF performance and mechanical strength in a light weight package.

Unique mechanical design provides excellent heat dissipation and extends service life.

Interchangeable with Models 18 and 26 antennas.

Five Year Limited Warranty.  
Contact factory for details.



**ISO 9001**

**II**

# INTEGRATED FEED SPECIFICATIONS\*

**T-5445/5446/5447**  
**31 Channels**

**T-5435/5436/5437**  
**33 Channels**

	T-5445/5446/5447 31 Channels	T-5435/5436/5437 33 Channels
<b>Input Frequency***</b>	2500 - 2686 MHz	2150 - 2162 MHz 2500 - 2686 MHz
<b>Down Converter Gain</b>		
T-5445 / T-5435	36 dB $\pm$ 2 dB	36 dB $\pm$ 2 dB
T-5446 / T-5436	32 dB $\pm$ 2 dB	32 dB $\pm$ 2 dB
T-5447 / T-5437	20 dB $\pm$ 2 dB	20 dB $\pm$ 2 dB
<b>Noise Figure</b>		
MDS	3.0 dB	4.0 dB
MMDS/ITFS		3.0 dB
<b>L.O. Specifications</b>		
Set Point Accuracy	2278.000 MHz $\leq$ $\pm$ 10 KHz	2278.000 MHz $\leq$ $\pm$ 10 KHz
Frequency Stability (-40° C to 60° C)	$\pm$ 30 KHz	$\pm$ 30 KHz
Phase Noise		
@ 100 Hz	>65 dBc/Hz	>65 dBc/Hz
@ 1 KHz	>85 dBc/Hz	>85 dBc/Hz
@ 10 KHz	>93 dBc/Hz	>93 dBc/Hz
@ 100 KHz	>107 dBc/Hz	>107 dBc/Hz
@ 1 MHz >	>120 dBc/Hz	>120 dBc/Hz
<b>Response Specifications</b>		
Output Frequency**		
MDS		116 - 128 MHz
MMDS/ITFS	222 - 408 MHz	222 - 408 MHz
Flatness		
MDS	$\pm$ 2 dB	$\pm$ .5 dB
MMDS/ITFS	$\leq$ $\pm$ 10nS	$\pm$ 2 dB
Group Delay Distortion per 6 MHz Channel		$\leq$ $\pm$ 10nS
PCS Rejection 1930-1990 MHz PRE-LNA	>100 dB	>100 dB
WCS Rejection 2305 MHz		
PRE-LNA	>60 dB	>60 dB
RF/IF Combined	>100 dB	>100 dB
IF Rejection	>80 dB	>80 dB
Radar Rejection - @ Output		
@ 427 MHz (2710 MHz Input)		
PRE-LNA	>10 dB	>10 dB
RF/IF Combined	>30 dB	>30 dB
@ 457 MHz (2750 MHz Input)		
PRE-LNA	>30 dB	>30 dB
RF/IF Combined	>50 dB	>50 dB
Microwave Oven Rejection - @ Output		
@ 174 MHz (2452 MHz Input)		
PRE-LNA	>25 dB	>25 dB
RF/IF Combined	>50 dB	>50 dB
@ 186 MHz (2464 MHz Input)		
PRE-LNA	>20 dB	>20 dB
RF/IF Combined	>45 dB	>45 dB
<b>Output Impedance</b>	75 OHMS	75 OHMS
<b>Output Connector</b>	F Female	F Female
<b>Power Supply</b>		
Voltage	+15 to 24 VDC	+15 to 24 VDC
Current Typical	220 mA	250 mA

\*Specifications subject to change without notice.

\*\*Consult factory for different input/output frequency conversion options.