

R. L. DRAKE

FET Converters

for 2 and 6 Meters



SC-2
Converter for 2 Meters



SC-6
Converter for 6 Meters



CC-1
Converter Console



SCC-1
50 kHz VHF
Crystal Calibrator



CPS-1
Power Supply

Drake engineering and the recent development of Field Effect Transistors made possible 2 and 6 Meter Converters that out-perform the best available tube and transistor converters.

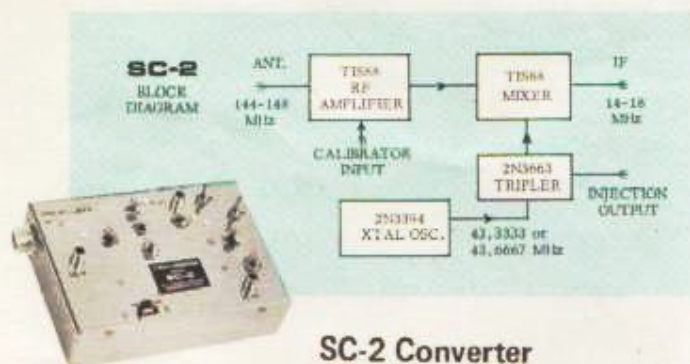
SC-2 and SC-6 FEATURES: • Low noise • Improved cross modulation and overload performance • Uniform gain across band • Entirely solid-state • Zener regulated crystal oscillator • Improved image rejection • Low spurious response.

Both converters, crystal calibrator and power supply fit into CC-1 console with space for extra converter.

Specifications subject to change without notice.

DRAKE FET Converters

FEATURES AND SPECIFICATIONS



- Low Noise—typically 2.0 dB
- Improved Cross Modulation and Overload Performance—minimum of 20 dB improvement over available tube converters
- Uniform Gain Across Band— $\pm .5$ dB over 4 MHz bandwidth
- Zener-regulated Crystal Oscillator for improved stability
- Entirely Solid State for maximum reliability
- Improved Image Rejection typically 70 dB
- Low Spurious Response
- Two Crystals Built-in—slide switch allows selection of proper crystal for reception of 144 and 145 MHz segments of band with limited coverage receivers
- Injection frequency output for transceive operation
- Chassis-mounted Calibrator Input
- Reverse Polarity Protection.

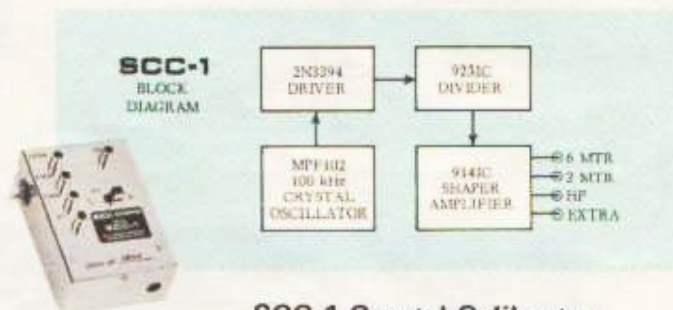
SPECIFICATIONS • Frequency Range: 144 to 148 MHz • IF Range: 14 to 18 MHz • Supplied with 43,333 and 43,667 MHz crystals • Power: Requires 15 to 18 V DC at 40 milliamps • Input and Output Impedances: 50 ohms • Gain: nominally 20 dB • Semiconductors: two TIS88 FET's, one 2N3394, one 2N3663, one 1N714 zener diode and one 1N4148 • Size: 6-3/8" L x 4-3/16" W x 2-1/2" H • Weight: 1 lb. 5 oz.



**CC-1
Converter
Console**

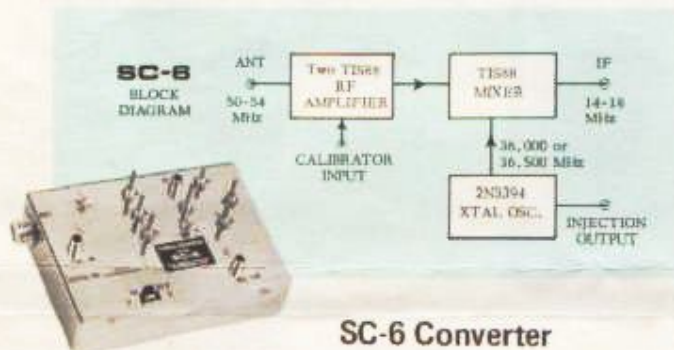
FEATURES

- Matches other Drake equipment in appearance
- Accommodates CPS-1 Power Supply, SCC-1 50 kHz Crystal Calibrator, SC-2 2 meter converter, SC-6 6 meter converter and has space for an extra converter
- Front panel switch connects any converter output or HF antenna to receiver
- SCC-1 can be switched directly to HF receiver
- 14 MHz feedthru down over 90 dB
- Supplied with interconnecting cables
- Size: 10-3/4" W x 8" D x 5-1/2" H.
- Weight: 6 lbs.



- Crystal controlled 100 kHz FET oscillator
- Two integrated circuits to produce 50 kHz calibration points
- Four output connectors
- Completely solid state
- No tuning
- No band switching
- No plug-in coils
- Zener regulated for maximum stability
- Provisions for both local and remote on-off switch
- may be permanently connected to the SC-2 and SC-6
- Reverse polarity protection.

SPECIFICATIONS Frequency Range: 50 kHz thru 432 MHz Power: Requires 15 to 18 V DC at 40 milliamps • Semiconductors: one MPF162 FET, one 2N3394, one Fairchild 923 integrated circuit, one Fairchild 914 integrated circuit, one 1N714 zener diode and one 1N4148 • Size: 3-3/8" L x 4-3/16" W x 2-1/8" H • Weight: 11 ounces.



- Low Noise—less than 2.5 dB
- Improved Cross Modulation and over Overload Performance—minimum of 20 dB improvement over available tube converters
- Uniform Gain Across Band— $\pm .5$ dB over 4 MHz bandwidth
- Zener-regulated Crystal Oscillator for improved stability
- Entirely Solid State for maximum reliability
- Improved Image Rejection typically 75 dB
- Low Spurious Response
- Two Crystals Built-in—slide switch allows selection of proper crystal for reception of 50 and 50.5 MHz segments of band with limited coverage receivers
- Injection frequency output for transceive operation
- Chassis-mounted Calibrator Input
- Reverse Polarity Protection.

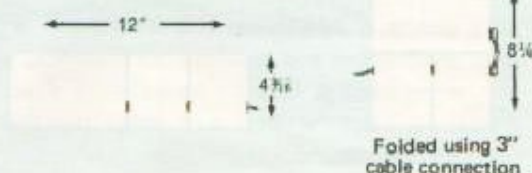
SPECIFICATIONS • Frequency Range: 49.5 to 53.5 MHz down approximately 3 dB at 54 MHz • IF Range: 13.5 to 17.5 MHz • Supplied with 36.0 and 36.5 MHz crystals • Power: Requires 15 to 18 V DC at 40 milliamps • Input and Output Impedances: 50 ohms • Gain: nominally 20 dB • Semiconductors: two TIM12 FET's, one 2N3394, one 1N714 zener diode and one 1N4148 • Size: 6-3/8" L x 4-3/16" W x 2-1/2" H • Weight: 1 lb. 5 oz.



CPS-1 Power Supply

- Completely solid state—silicon diode bridge circuit
- Power Output: 15 V DC at 100 milliamps
- Size 3-1/4" L x 4-3/16" W x 2-1/16" H
- Weight: 1 lb. 1 oz.

HOOK-UP ARRANGEMENTS (if used separately from Console)



See other Drake products at your distributor, or write:

R. L. DRAKE COMPANY 540 RICHARD ST., MIAMISBURG, OHIO 45342