

# STL-20C TRANSMITTER / R-15C RECEIVER

## SYSTEM SPECIFICATIONS

### Composite system specifications

- Stereo separation:** 58 dB or better 50 Hz - 15 KHz with 250 KHz IF Filter
- Frequency response:** Composite channel  $\pm 0.05$  dB 30 Hz - 53 KHz  
Wide band channel  $\pm 0.1$  dB 30 Hz - 100 KHz
- Distortion:** 0.1% or less 30 Hz - 15 KHz (demodulated, de-emphasized, LP filtered left or right channel)
- Noise:** more than 76 dB below 100% modulation (demodulated, de-emphasized, LP filtered left or right channel)
- Emission:** 194 KF8E (without subcarrier)  
280 KF8E (with 1 subcarrier)  
490 KF8E (with 2 subcarriers)

### Monophonic system specifications

- Frequency response:**  $\pm 0.02$  dB 30 Hz - 15 KHz
- Distortion:** 0.1% or less 30 Hz - 15 KHz
- Noise:** more than 76 dB below 100% modulation (75  $\mu$ s de-emphasis)
- Emission:** 194 KF8E (mono channel with subcarrier)
- Pre-emphasis** Adjustable 0, 25, 50, or 75 microseconds

# Composite STL Transmitter Model STL-20C

## TRANSMITTER SPECIFICATIONS

<b>Frequency range:</b>	940 - 965 MHz	STL-20C/950
<b>RF power output:</b>	20 Watts	
<b>Output impedance:</b>	50 ohms	
<b>Carrier frequency stability:</b>	±.00025% (-20°C to +50°C)	
<b>Synthesizer:</b>	The STL-20C carrier is synthesized at the operating frequency. Selection is by 24 DIP switches. Resolution is 25 KHz.	
<b>Type of modulation:</b>	Direct FM (synthesized) ±50 KHz deviation = 100% modulation	
<b>Monophonic audio input:</b>	Balanced 600 ohms, +8 dBm, barrier strip	
<b>Composite audio input:</b>	BNC connector, 5K ohms, 3 V. P-P for 100% modulation	
<b>Subcarrier inputs:</b>	Two BNC connectors for remote control and/or subcarrier inputs. 5K ohms unbalanced, 3 V. P-P for 10% injection	
<b>Power requirements:</b>	120/220 VAC*, 50/60 Hz, 80 watts; 13.5 VDC at 2.6 Amperes; 24-28 VDC** at 2.6 Amperes	
<b>AC power supply:</b>	Precision, electronically regulated with current/temperature limiting	
<b>Fuse:</b>	2.5 Amp Slo-Blo for 115 V operation. 1.25 Amp Slo-Blo for 230 V operation. Type 3AG	
<b>Spurious emissions:</b>	More than 60 dB below carrier	
<b>Automatic changeover:</b>	Provision for automatic changeover by addition of ATS-15E Automatic Switcher	
<b>Accessory connector:</b>	15 pin D connector on rear panel provides filtered access to <b>Signal, Control, and Power</b> circuits, <b>Changeover, Remote Power Metering, and External DC Power</b> (Model UPS-12 Uninterruptible Power Supply)	

- Metering:** Precision "Peak-hold" Bar Graph Modulation Meter. Illuminated test meter indicates Forward Power, Reverse Power, PA Current, Subcarrier Level, and 13.5 Volt Supply. LED's indicate Transmit, Composite Mode, Mono Mode, AFC Lock, High VSWR, and High Temp.
- Panel controls:** Transmit switch, Test Meter switch, Power Adjust pot
- Dimensions:** 3.5 inches High x 19 inches Wide x 14 inches Deep  
8.89 cm High x 48.26 cm Wide x 35.56 cm Deep
- Weight:** Net 11 pounds. Domestic packed 18 pounds.  
Net 4.9 kilograms. Export packed 8.2 kilograms.
- RF connector:** UG-58 (type N female)

\* Voltage must be specified with order.

\*\* Requires APS-28/18 Power Supply.

Specifications subject to change without notice

## **UNPACKING & INSPECTING**

This equipment was factory tested, inspected, packed, and delivered to the carrier with utmost care. Do not accept shipment from carrier which shows damage or shortage until the carrier's agent endorses a statement of the irregularity on the face of the carrier's receipt. Without documentary evidence, a claim cannot be filed.

Unpack equipment immediately upon receipt and thoroughly inspect for concealed damage. If damage is discovered, stop further unpacking and request immediate inspection by lo-

cal agent of carrier. A written report of the agent's findings, with his signature is necessary to support claim. Check your shipment against the shipping papers for possible shortage. Do not discard any packing material until all items are accounted for. Small items are often thrown away with packing material.

Packing material should be retained until equipment testing is completed. Any equipment returned to the factory should be packed in original cartons, insured, and pre-paid.

BROADCAST ELECTRONICS

FCC ID : DDE-STL-20W-950S

JOB # : 250U1

EXHIBIT # : 11C