

SRPT 30 - Specifications : Technical Specifications

AVAILABLE OPERATING FREQUENCIES

150 MHz Band:

Range from 135 to 185 MHz

230 MHz Band:

Range from 215 to 250 MHz

250 MHz Band:

Range from 235 to 265 MHz

330 MHz Band:

Range from 300 to 350 MHz

450 MHz Band:

Range from 430 to 480 MHz

950 MHz Band:

Range from 935 to 965 MHz

RF SPECIFICATIONS

Typical Max RF Output Power:**Power @ 135-185 MHz:**

30 W

Power @ 215-250 MHz:

30 W

Power @ 235-265 MHz:

30 W

Power @ 300-315 MHz:

30 W

Power @ 315-350 MHz:

30 W

Power @ 430-480 MHz:

30 W

Power @ 935-960 MHz:

20 W

Power @ 960-965 MHz:

30 W

Selection:

Any two frequencies within selected band can be factory set with 5 and 6.25 kHz steps

Deviation:

Adjustable, ± 20 kHz max

Stability over Operating Temperature range:

$\pm 0.0001\%$

Agility and Accuracy:**For frequencies <480 MHz divisible by 5 kHz or 6.25 kHz:**

$\pm 0.00004\%$

For MOST frequencies <480 MHz NOT divisible by 5 kHz or 6.25 kHz:

$\pm 0.00015\%$

For frequencies >800 MHz divisible by 10 kHz or 12.5 kHz:

$\pm 0.00004\%$

For MOST frequencies >800 MHz NOT divisible by 10 kHz or 12.5 kHz:

$\pm 0.00015\%$

Broadcast Electronics

Technical Specifications

AUDIO SPECIFICATIONS

Modulation Control:

Broadcast quality compressor/limiter built-in

Audio Input Level:**Mic In:**

-68 dB to -35 dB

Line In:

0 to +10 dBm, 8-600 Ohms

Mono Operation:**Frequency Response:****50 Hz to 3 kHz:**

± 1.5 dB, 1.5 kHz Dev

50 Hz to 7.5 kHz (Standard):

± 1.5 dB, 5 kHz Dev

50 Hz to 10.5 kHz:

± 1.5 dB, 7.5 kHz Dev

Signal To Noise:

≥ 53 dB, 5 kHz deviation, 75 µsec pre/de-emphasis

Frequency Response:

±1.5 dB from 50 Hz to audio bandwidth, 75 µsec pre-emphasis

Distortion:

≤ 2% from 50 Hz to audio bandwidth, 75 µsec pre-emphasis

Spurious Emission:

More than 60 dB below carrier

Encoding:

Sub-audible (27 Hz) tone encoder built in

RF Output Impedance:

50 Ohm

MECHANICAL/PHYSICAL

Audio Inputs:

4 balanced microphone (150 Ohm) inputs (XLR-3) with mixing controls, 1 input switchable to balanced line level at no. 4 input and D connector on rear

Accessory Connector:

15-pin D connector for DC power, remote control, encode, line level input

RF Connector:

Type N female

Dimensions (Unpacked):

3.5"H x 11.5"W x 14.3"D (8.9cm H x 29.2cm W x 36.8cm D)

Weight (Unpacked):

8.25 lbs (3.74 Kg)

ENVIRONMENTAL

Operating Temperature:

-10° C to +45° C

Altitude:

10,000 ft (3048m) max

Humidity:

95% maximum, non-condensing



Broadcast Electronics

Technical Specifications

ELECTRICAL

Approx PA Current Reading (at max power output):

6.5 A to 7.5 A

Power Requirements:

AC:

132 VAC or 176-264 VAC (manually switched internal linear supply), 50/60 Hz

External DC:

12-15 V to 15-30 V

Power Consumption:

300 W Max (150 W Typical)

Heat Dissipation:

300 W Max

Fuse:

2.5 A Slo-Blo for 115 VAC operation, 1.25 A Slo-Blo for 230 VAC operation

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

