

SRPT 40A - 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 @ 135-140 MHz:**

50 W

Power @ 140-180 MHz:

60 W

Power @ 180-185 MHz:

40 W

Power @ 215-235 MHz:

30 W

Power @ 235-245 MHz:

25 W

Power @ 245-265 MHz:

30 W

Power @ 300-315 MHz:

20 W

Power @ 315-350 MHz:

30 W

Power @ 390-520 MHz:

45 W

Power @ 840-965 MHz:

20 W

Selection:

Fully frequency agile within selected band, selected within 5 and 6.25 kHz steps for 480 mHz and below, 10 and 12.5 kHz steps for above 480 mHz

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:

$\pm .00004\%$

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

$\pm .00015\%$

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



Broadcast Electronics

Technical Specifications

± .00004%

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

± .00015%

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



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Technical Specifications

Altitude:

10,000 ft (3048m) max

Humidity:

95% maximum, non-condensing

ELECTRICAL

Approx PA Current Reading (at max power output):

8.5 A to 10.5 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:

450 W Max (250 W Typical)

Heat Dissipation:

450 W Max

Fuse:

4 A Slo-Blo for 115 VAC operation, 2 A Slo-Blo for 230 VAC

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

