

SCG 10 - Specifications : Technical Specifications

GENERAL SPECIFICATIONS

Subcarrier Frequency:

39 kHz, 41 kHz, 67 kHz, 92 kHz, 110 kHz, 152 kHz, or 185 kHz. Frequency test jack on front panel.

Frequency Stability:

+/- 0.18%, -10 degrees C to +50 degrees C.

Subcarrier Purity:

Less than 0.5% THD

Modulation:

Direct FM

FM Deviation:

Factory set for +/- 7.5% of subcarrier frequency

Modulator Distortion:

Less than 1% THD

Audio Processing: Pre-emphasis:

0, 75, 150, 225 microseconds, user selectable

Audio Processing: Low-pass Filters:

Audio cut-off frequencies of 3 kHz, 5 kHz or 7.5 kHz, are specified with original equipment order. The lowest possible cut-off frequency is recommended. Maximum cut-off is 12% of subcarrier frequency.

Audio Processing: Companding:

An optional compander decode board is available for installation in the SCG 10 when used in a subcarrier link having a SCD 10 subcarrier demodulator with a compander decode board. Companding will reduce noise and can mask certain types of main channel to subcarrier cross-talk.

Frequency Response:

+/-1.5 dB, 25 Hz to 95% of low-pass filter cut-off frequency.

FM Noise:

More than 68 dB below 5 kHz deviation (measured through SCD 10 demodulator directly connected to SCG 10 output, 225 microsecond pre-emphasis, without companding.) With companding -72 dB.

Audio Input Impedance:

600 ohms balanced (screw terminals or "D" connector pins.)

Muting Level:

Adjustable from 0 dB to 40 dB below 100% modulation. (soft mute).

Muted Carrier Level:

60dB below rated maximum output level

Subcarrier Output:

Front panel adjustment, 0.3v to 7.0v P-P input 600 ohms. (BNC).

Remote Control:

Remote control by grounding pin 4 of accessory "D" connector

Metering:

Illuminated, indicates peak modulation or subcarrier output level.

Controls:

Meter Switch, Subcarrier Control Switch, Modulation Level, Automatic Mute Delay, Mute Level, Subcarrier Output Level, Subcarrier Frequency, Subcarrier Frequency Test Jack (located on front panel)

Connectors:

BNC jack for subcarrier output, 9 pin "D" connector for balanced audio input, remote control, FSK input, ground, +18 to 20 volt input, +13.5 volt input, AC receptacle, 6-32 screw terminals for balanced 600 ohm audio input.

RF Protection:

All input/output circuits filtered for RF. Totally shielded and bonded aluminum enclosure.

Operating Temperature Range:

-10 degrees C to +50 degrees C.

Power Requirements:

120/220/240 VAC (voltage to be specified on original order), 50/60 Hz, 10 watts or 12-14 VDC at 50 ma negative ground or 24-28 VDC at 70 ma

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(28 volt operation require the APS-28/18 power supply)

AC Fuse Rating:

For 120 V, use 3/8 amp fuse.

PHYSICAL SPECIFICATIONS

Weight:

4.5 pounds 2.1 kilograms

Dimensions:

1-3/4 inches high x 19 inches wide x 12 inches deep. 4.45 cm high x 48.26 cm wide x 30.48 cm deep

Shipping Weight:

9 pounds domestically. 4.1 kilograms export.

SPECIAL NOTES

Specifications subject to change without notice.

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