

4. SPECIFICATIONS

- 4.01 Specifications for the 306A-1 Station Carrier Test Set are given in Table 4-1.

Table 4-1. Specifications for the 306A-1
Station Carrier Test Set

CARRIER (CXR 135 Ω BRIDGED) MEASUREMENTS

TUNE Range	8 to 152 kHz; continuously variable
LEVEL Range	-49.9 to +9.9 dBm
TUNE Accuracy	± 20 Hz
LEVEL Accuracy	± 1.0 dB (including bridging loss)
TUNE Display Resolution	10 Hz
LEVEL Display Resolution	0.1 dB
Harmonic and Inter-modulation Distortion	More than 40 dB below composite input power level
Bridging Loss	Less than 0.2 dB
Maximum Input Power	+13 dBm
Range Selection	Automatic
AC Input Impedance	Greater than 4 kOhms

TEST TONE (VF 900 Ω TERMINATED) MEASUREMENTS

TUNE Range	800 Hz to 15 kHz; continuously variable
LEVEL Range	-19.9 to +9.9 dBm
TUNE Accuracy	± 20 Hz

SOM-306A-1

**Table 4-1. Specifications for the 306A-1
Station Carrier Test Set (continued)**

LEVEL Accuracy	± 0.5 dB, at 1 kHz; 1 dB over frequency range
TUNE Display Resolution	10 Hz
LEVEL Display Resolution	0.1 dB
Range Selection	Automatic
Hold Circuit DC Current	25 mA $\pm 5\%$ at 5 to 60 Vdc
Return Loss	More than 40 dB
AC Input Impedance	$900\Omega \pm 10\%$

DC VOLTAGE MEASUREMENTS

Voltage Range	0 to ± 350 Vdc
Accuracy	$\pm 5\% \pm 2$ V
Input Impedance	Greater than 100 kOhms
Display Resolution	Nearest 0.1 V
Polarity	Auto-polarity
Range Selection	None required

POWER REQUIREMENTS

Batteries	10 size AA ni-cad, rechargeable
Battery Charge Life	4 hours continuous
Battery Charging Method	External battery transformer/ charger
Alternate Batteries	10 size AA carbon-zinc batteries may be used

ENVIRONMENTAL/PHYSICAL

Temperature (operating)	0°C to +50°C (32°F to +122°F)
(storage)	-40°C to +60°C (-40°F to +140°F)

**Table 4-1. Specifications for the 306A-1
Station Carrier Test Set (continued)**

Input Circuit Protection		
(lightning)	600 V transient; 10 microsecond rise; 1200 microsecond decay	
(dial ringing)	110 V-rms; 20 Hz; biased at ± 42 to ± 58 Vdc	
(max. cont. dc)	500 Vdc	
Enclosure		High impact molded plastic
(length)	25.4 cm	(10 inches)
(width)	11.4 cm	(4.5 inches)
(depth)	5.7 cm	(2.25 inches)
(weight)	Less than 1.8 kg (4 pounds)	

5. OPERATION

RECEIVING INFORMATION

5.01 Carefully unpack the test set and inspect for damage due to shipping and handling. We suggest that you retain the shipping container and packaging; it may be valuable for storing the instrument, or returning for repair. If there is any damage to the unit or its accessory equipment, or if any of the order is missing, or if the test set does not operate properly, contact LSI/Sierra's CUSTOMER SERVICE DEPARTMENT at the following address: