

4. SPECIFICATIONS

4.01 Specifications for the 415A-2 Span and Repeater Test Set are shown in Table 4-1.

TABLE 4-1
TEST SET SPECIFICATIONS

Parameter	Characteristic				
Pulse Transmitter					
	T1		T148C		T1C
Bit Rates:	1.544 Mb/s		2.364 Mb/s		3.152 Mb/s
Time Slot:	648 ns		422 ns		317 ns
Pulse Width, Nominal:	324 ns		211 ns		160 ns
Pulse Rise and Fall Time:	80 ns		50 ns		40 ns
Pulse Overshoot:	10 to 30% of pulse amplitude				
Pulse Amplitude:	$\pm 3V \pm 10\%$ base-to-peak ($6V \pm 10\%$ peak-to-peak)				
Audio Component Frequencies (Hz):	A	832	G	1722	
	B	928	H	2008	
	C	1048	J	2193	
	D	1206	K	2413	
	E	1340	L	2680	
	F	1508	M	3017	
Audio Component Accuracy:	$\pm 2\%$				
Interference Margin Signal:	Sine wave, level adjustable from 8 to 18 dB below level of all 1s signal at repeater input.				
	T1: 770 kHz		T148C: 1.179 MHz		T1C: 1.570 MHz
Fault Line Receiver					
Filter Frequencies:	Same as transmitter audio component frequencies				
Input Range:	-100 dBm to +2 dBm				
Input S/N Requirement:	15 dB S/N minimum in a ± 10 Hz bandwidth centered on desired fault locating frequency.				
Input Impedance:	900 ohms $\pm 10\%$				
Level Reading Accuracy:	± 1.0 dB at 0 dBm on meter; ± 2.0 dB at -10 dBm on meter				
Meter Accuracy:	$\pm 3\%$ of full scale				
PCM Signal Input:	± 1.0 to ± 4.0 V, base-to-peak (2.0 to 8.0 V peak-to-peak)				
High Voltage:	200 $\pm 10\%$ VDC. Lamp ON indicates less than 1 megohm insulation resistance $\pm 25\%$.				

— table continued —

TABLE 4-1 (continued)
TEST SET SPECIFICATIONS

Parameter	Characteristic
General	
Temperature Range:	Operating: 32°F to 122°F (0°C to +50°C) Storage: -40°F to 149°F (-40°C to +65°C) Maximum Humidity: 95%
Power:	115/230 VAC \pm 10%, 47.5 to 66 Hz
Dimensions, Nominal:	7½ in. (19 cm) H x 12 in. (31 cm) W x 11½ in. (29.2 cm) with cover (8 in. D with cover removed)
Weight:	15 lbs. 8 oz. (7.03 kg) with cover