

Advanced Test Equipment Rentals www.atecorp.com 800-404-ATEC (2832)

Table 1-1. Leading Particulars of the Ling Model 420 Shaker

Item	Particular	Comment
· - 1	Force Rating	
	Forced-air Cooled	100 lb (445 N) vector
	Self Cooled See Figure 1-4	30 lb (133 N) vector (continuous duty)
	Below 0.1 Hz	70% of above force ratings
	= -	
2	Frequency Range	dc to 7500 Hz (bare table)
3	First Major Resonance	5800 Hz (nominal)
4	Armature Displacement	t0.375 in (9.5 mm) from neutral position
5	Maximum Acceleration	118 g vector
6	Upper Armature Guidance and Suspension	3 internally damped lateral flexures
7	Lower Armature Guidance and Suspension	Linear bearing assembly
8	Axial Suspension Stiffness	65 lb/in (114 N/cm) (nominal)
9	Armature Effective Weight	0.85 lb (3.78 N)
10	Armature Drive Require- ments (Ref. Fig. 1-5 & 1-6)	100 lb force vector: 800 VA 50 lb force vector: 250 VA
11	Rated Armature Current	
	Forced-air Cooled	28A rms
	Self Cooled	8.4A rms (30 lb force vector)
12	DC Armature Resistance at 68°F (20°C)	0.24 ohms (nominal)
13	Shaker Weight	65 lb (289 N)