

DFST-30 30 " 70 mm spring

**ENG. Review**  
 Int'l *JMF* Date 01-30-07

DROSSBACH  
 P/N 012907-ST10  
 REV NON#

Compression	Cylind	CENG	Music Wire	Round
Wire Dia (in)	0.1970	Mean Dia (in)	3.8480	Active Coils 25.6176
				Total Coils 27.6176
				Inactive Coils 0.0000
Rate (#/in)	1.4833	Inside Dia (in)	3.6510	Pitch (in) 1.1480
Spring Index C	19.5330	Outside Dia (in)	4.0450	1/Pitch (per in) 0.8711
Nat Freq (Hz)	7.2144			Pitch Ang (deg) 5.4247
Slenderness Lf/D	7.7963	Max O.D. (in)	4.0618	
Fatigue (cycles)		Solid Hgt (in)	5.6377	Devel Lngth (in) 333.8649
No Peen (cycles)				Weight (lbs) 2.8901

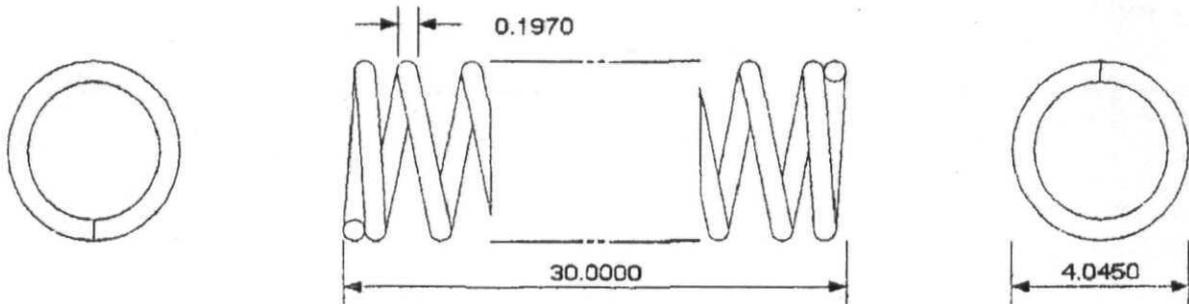
	Free	Point 1	Point 2	Solid
Load (lbs)				36.1367
Length (in)	30.0000			5.6377
Deflection (in)				24.3623
Defl, % of Max Defl				
UNK Stress (psi)				46315
UNK Stress % of MTS				19.2
CORR Stress (psi)				49648
CORR Stress % of MTS				20.6

NORMAL MANUFACTURING TOLERANCES: (All other dimensions ref. only)  
 Coil Diameter: +/- 0.062 (in)  
 Free Length: REFERENCED

NOTES:  
 RIGHT HAND WOUND  
 PLAIN FINISH

*Rodney Blair*

**MASTER COPY**



Dimensions in inches  
 Illustration Only - Not for manufacture - Not to scale

Analysis performed with the SMI SPRING DESIGNER, Ver. 2.1 on 01/29/07