		JBL Engineering Standard			Number 1888		
JE	SL	Engineering Desi Specification	ign		Date Effectiv Pag		
Model:	2043G						
Description:	18" Pro PA	woofer for JRX subwoofer	featuring low	cost and	high output		
Voice Coil	Diameter:	3	inch			(2)-4 -3	
	Type:	Round wire					
Material: Wind length:		25.5G Copper					
		0.90"					
	DCR:	2.6	Ohms				
Turns:		90					
Axial pos	ition in gap:	Centered					
Magnet Flux:		256 k	lines in 0.5"	thk top p	olate		
		309 k	total lines in	tercepted	by voice coil		
Minimum Impedance:		3.4	Ohms @	145	Hz	In Free Air	
	Polarity:	Positive voltage	e to RED term	inal give	es forward cone r	notion	
Power Test in	5.5 CF enclo	osure tuned to 45 Hz (MP4	18)		1 K.		
Voltage:		32.4	VTRMS				
Spectrum		40-120	Hz pink nois	e	1		
Crest Factor		9	dB				
Oualification duration		100	Hours				
Au	dit duration	2	Hours				
Refe	rence power	350	watts into Zr	nin in en	closure = 3.0 oh	ns	
1	Environment	MP418 enclosu	re, 5.5 cf, 45	Hz			
Rtg Rtm Rttl		0.91	Deg C/Watt All in enclosure			e	
		0.37	Deg C/Watt				
		1.28	Deg C/Watt		File = 2043bx4		
	Woofer is ex	pected to handle 400 watts	in free air, bu	it not yet	formally qualified	ed.	
Dimensions	Depth	7 1/2	Inches	-			
	Weight:	17	lbs				
111		REVISIONS					
LTR	1000	DESCRIPTION		100	DATE	APPR	
Α		INITIAL RELEASE	3		1/14/2004	REH	
		Design Engine	er	R	alph Hyde	4 m	

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	1		043G		Tage	2015
		Theile - Sma	II Paramet	ers (Clio)		
Befo	ore power to	est Afte	r 2 hr powe	er test		
Re:	2.7	S	ee B.P.T.	Ohms		
Zmin	3.4			ohms		
Fzmin	150.0			Hz		
Fs:	31			Hertz		
Qts:	0.32					
Qms:	7.3					
Oes:	0.36				14	•
Vas:	384			Liters		
Ref Eff:	3.3%	S	ee B.P.T.			
Sd:	0.127	S	ee B.P.T.	Sq Meters		
Mms:	153	S	ee B.P.T.	Gms		
BL:	15.5	S	ee B.P.T.	T*M		
Le @ 1KHz:	1.1	S	ee B.P.T.	mH		
Xmax @ 10%						
THD:	8	S	ee B.P.T.	mm		
Motional						
Impedance:	59			Ohms		
F	roposed Frequ	ency Response	Window			
1	(Hz)	+/- dB	Octaves			
F	40-400	1	1/3	_		
L						

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