

Illuminator 6½" Midwoofer



Type Number: 18WU/4741T00

Features:

The Illuminator woofers are based on compact under-hung motor systems with large neodymium ring magnets. The patent pending motor offers a very long linear excursion together with a very high force factor. The top plate is shaped to "guide" the backside airflow around the motor and with the very open cast aluminum chassis design the driver is virtually free from compression.

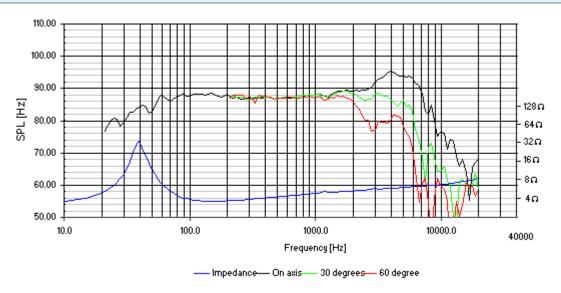
Driver Highlights: Neo magnet, Under hung motor system, exceptionally long linear stroke



Specs:

Electrical Data				Power handling		
Nominal impedance	Zn	4	ohm	100h RMS noise test (IEC)	80	W
Minimum impedance	Zmin	4.5	ohm	Long-term Max Power (IEC 18.3)	150	W
Maximum impedance	Zo	37.8	ohm	Max linear SPL (rms) @ power		dB/W
DC resistance	Re	3.2	ohm	Short Term Max power (IEC 18.2)	200	W
Voice coil inductance	Le	0.5	mΗ	Voice Coil and Magnet Parameters		
T-S Parameters				Voice coil diameter	42	mm
Resonance Frequency	fs	30	Hz	Voice coil height	8	mm
Mechanical Q factor	Qms	3.56		Voice coil layers	4	
Electrical Q factor	Qes	0.32		Height of the gap	20	mm
Total Q factor	Qts	0.29		Linear excursion +/-	6	mm
Force factor	BI	6	Tm	Max mech. excursion +/-	16	mm
Mechanical resistance	Rms	1	Kg/s	Flux density of gap		mWb
Moving mass	Mms	18.9	g	Total useful flux		mWb
Suspension compliance	Cms	1.49	mm/N	Diameter of magnet	90	mm
Effective cone diameter	D		cm	Height of magnet	4	mm
Effective piston area	Sd	154	cm ²	Weight of magnet	0.13	Kg
Equivalent volume	Vas	49.9	Itrs			
Sensitivity (2.83V/1m)		87.2	dB			
Ratio BL/√(Re)				Notes:		
Ratio fs/Qts	F			IEC specs refer to IEC 60268-5 third edition. All Tymphany products are RoHS compliant.		

Frequency: 18WU/4741T00



Mechanical Dimensions:18WU/4741T00

