

1" COMPRESSION DRIVERS

Over a decade ago, Radian Audio Engineering went into business with a commitment to manufacture loudspeaker components that accurately reproduce the full frequency range of the audio spectrum. We began by building coaxial loudspeakers and compression drivers. The Radian 450PB, 465PB and the 475PB, with a 1.75" diaphragm, represent the refinement of our design efforts in 1" exit-format compression driver technology.

All Radian compression drivers feature heat-treated structural alloy aluminum diaphragm domes which form an optimum balance of strength and low weight. This is a key factor in extending high frequency response.

Radian diaphragms utilize a Mylar® surround, which not only enhances the diaphragm's reliability, but eliminates fatigue which destroys other compression driver diaphragms.

In addition to being virtually indestructible, Mylar® surrounds provide excellent dampening characteristics which translate into smooth, low-distortion, linear output devoid of the resonant peaks typically present in diaphragms made with metal surrounds.

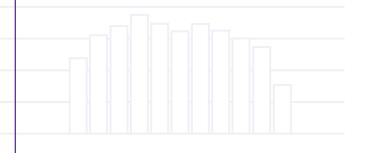
Beyond the obvious advantages of our Mylar®-aluminum composite construction, Radian diaphragms utilize high temperature voice coil formers and advanced adhesives which allow Radian compression drivers to sustain high RMS and peak power levels over extended periods of time.

Radian diaphragm assemblies are self-aligning and may be rapidly serviced in the field by simply removing the three screws on the driver's backcap and replacing the old unit with the new one.

Superior sound quality, unparalleled power handling, extended high frequency response and high reliability make our compression drivers the preferred choice of loudspeaker systems manufacturers, consultants, contractors, designers and engineers around the world. They are ideal for use in high output, high power touring sound systems and stage monitors, while their low distortion, high fidelity and linear response delivers clear, crisp music and speech for theatrical, auditorium, stadium, convention and church installations.



- ✓ COMPACT DESIGN
- ✓ EXTENDED HIGH FREQUENCY RESPONSE
- ✓ 1" Exit
- √ 25, 35 WATTS RMS
- ✓ MYLAR® SUSPENSION
- ✓ HIGH SENSITIVITY



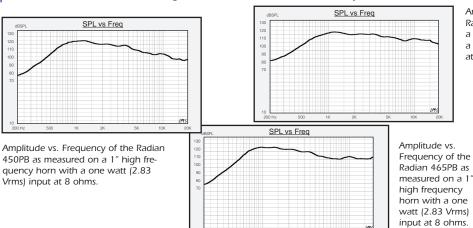


1" COMPRESSION DRIVERS

SPECIFICATIONS

REQUENCY RESPONSE. 800 Hz - 20 kHz 800 Hz - 20 kHz		<u>450PB</u>	<u>465PB</u>	<u>475PB</u>
SENSITIVITY	Frequency Response	800 Hz – 20 kHz		800 Hz – 21 kHz
RECOMMENDED CROSSOVER 800 Hz, 24 dB/octave 800 Hz, 24 dB/octave 1200 Hz, 12 dB/octave 1200 Hz, 120	Maximum Power Handling*	25 watts RMS		
NOMINAL IMPEDANCE 1200 Hz, 12 dB/octave 1200 Hz, 12 dB/octave NOMINAL IMPEDANCE 8 or 16 ohms 8 or 16 ohms 8 or 16 ohms D.C. RESISTANCE 6.2 or 12.4 ohms (±10%) 6.2 or 12.4 ohms (±10%) 6.2 or 10.5 ohms (±10%) VOICE COIL DIAMETER 1.75" (44.45mm) 1.75" (44.45mm) 1.75" (44.45mm) 1.75" (44.45mm) 1.00" (25.4mm) 1.00	Sensitivity	•	•	•
D.C. RESISTANCE. 6.2 or 12.4 ohms (±10%) 6.2 or 12.4 ohms (±10%) 6.2 or 10.5 ohms (±10%) VOICE COIL DIAMETER. 1.75" (44.45mm) 1.75" (44.45mm) 1.75" (44.45mm) 1.75" (44.45mm) 1.75" (44.45mm) 1.00" (25.4mm) 1.00" (25.4	Recommended Crossover			
VOICE COIL DIAMETER. 1.75" (44.45mm) 1.75" (44.45mm) 1.75" (44.45mm) THROAT DIAMETER 1.00" (25.4mm) 1.00" (25.4mm) 1.0" (25.4mm) VOICE COIL MATERIAL Edgewood copperclad aluminum Edgewood copperclad aluminum Edgewood copperclad aluminum Edgewood copperclad aluminum DIAPHRAGM MATERIAL 0.002" (0.05mm) heattreated aluminum alloy 0.002" (0.05mm) heattreated aluminum alloy 0.002" (0.05mm) heattreated aluminum alloy DIAPHRAGM SUSPENSION Mylar® Mylar® Mylar® MAGNET 14.5 oz. (0.41 kg) 24.5 oz. (0.6946 kg) 38.4 oz. (1.09 kg) Ferrite V Ferrite V Ferrite V Ferrite V FLUX DENSITY 15,500 gauss 16,000 gauss 18,800 gauss INPUT CONNECTORS Goldplated pushbutton terminals Goldplated pushbutton terminals Button terminals Button terminals MOUNTING Two 1/4-20 studs, on 3.0" (76.2mm) centers Three 1/4-20 studs, on 2.025"centers 3.0" (76.2mm) centers Three 1/4-20 studs, on 2.025"centers 1.732" (43.81mm) deep less studs 5.10" (129.54mm) diameter, 2.290" (58.17mm) deep less studs 5.25" (133.35mm) diameter, 2.6" (66.04mm) deep less studs	NOMINAL IMPEDANCE	8 or 16 ohms		
THROAT DIAMETER 1.00" (25.4mm) 1.00" (25.4mm) 1.0" (25.4mm) 1.0" (25.4mm) VOICE COIL MATERIAL Edgewood copper-clad aluminum clad aluminum breated aluminum alloy treated aluminum clad aluminum clad aluminum clad aluminum clad aluminum alloy treated aluminum all	D.C. RESISTANCE	6.2 or 12.4 ohms (±10%)	6.2 or 12.4 ohms (±10%)	6.2 or 10.5 ohms (±10%)
VOICE COIL MATERIAL Edgewood copper- clad aluminum Mylar° Ferrite V Ferrite V Ferrite V Ferrite V Ferrit	VOICE COIL DIAMETER	1.75" (44.45mm)	1.75″ (44.45mm)	1.75" (44.45mm)
Clad aluminum Clad Clad Ferite V Ferrite V F	THROAT DIAMETER	1.00" (25.4mm)	1.00″ (25.4mm)	1.0" (25.4mm)
DIAPHRAGM SUSPENSIONMylar®Mylar®Mylar®MAGNET14.5 oz. (0.41 kg) Ferrite V24.5 oz. (0.6946 kg) Ferrite V38.4 oz. (1.09 kg) Ferrite VFLUX DENSITY15,500 gauss16,000 gauss18,800 gaussINPUT CONNECTORSGoldplated push- button terminalsGoldplated push- button terminalsGoldplated push- button terminalsGoldplated push- button terminalsMOUNTINGTwo 1/4-20 studs, on 3.0" (76.2mm) centersTwo 1/4-20 studs, on 3.0" (76.2mm) centersTwo 1/4-20 studs, on 2.025"centersDIMENSIONS4.54" (115.31mm) dia- meter, 1.732" (43.81mm) deep less studs5.10" (129.54mm) dia- meter, 2.290" (58.17mm) deep less studs5.25" (133.35mm) dia- meter, 2.6" (66.04mm) deep less studs	Voice Coil Material	3 11	3 11	3 11
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Ferrite V Ferrite V Ferrite V Ferrite V FLUX DENSITY 15,500 gauss 16,000 gauss 18,800 gauss INPUT CONNECTORS Goldplated push- button terminals button terminals button terminals button terminals button terminals Two 1/4-20 studs, on 3.0" (76.2mm) centers Three 1/4-20 studs, on 2.025"centers DIMENSIONS 4.54" (115.31mm) dia- meter, 1.732" (43.81mm) deep less studs Refrite V Ferrite	DIAPHRAGM SUSPENSION			Mylar®
INPUT CONNECTORS Goldplated pushbutton terminals button terminals 5.10° (76.2mm) centers 3.0° (76.2mm) centers Three 1/4-20 studs, on 2.025° centers DIMENSIONS 4.54° (115.31mm) diameter, 1.732° (43.81mm) deep less studs MOUNTING 5.10° (129.54mm) diameter, 2.290° (58.17mm) deep less studs	Magnet			, 3,
MOUNTING. Two 1/4-20 studs, on 3.0" (76.2mm) centers Two 1/4-20 studs, on 3.0" (76.2mm) centers Two 1/4-20 studs, on 3.0" (76.2mm) centers Three 1/4-20 studs, on 2.025"centers 2.025"centers 5.25" (133.35mm) diameter, 1.732" (43.81mm) deep less studs meter, 2.290" (58.17mm) deep less studs meter, 2.6" (66.04mm) deep less studs	FLUX DENSITY			
3.0" (76.2mm) centers 3.0" (76.2mm) centers Three 1/4-20 studs, on 2.025"centers DIMENSIONS .4.54" (115.31mm) diameter, 1.732" (43.81mm) deep less studs deep less studs 3.0" (76.2mm) centers 2.025"centers meter, 2.290" (58.17mm) meter, 2.6" (66.04mm) deep less studs deep less studs	Input Connectors			
meter, 1.732" (43.81mm) meter, 2.290" (58.17mm) meter, 2.6" (66.04mm) deep less studs deep less studs	Mounting	· ·	3.0" (76.2mm) centers Three 1/4-20 studs, on	
WEIGHT	DIMENSIONS	meter, 1.732" (43.81mm)	meter, 2.290" (58.17mm)	meter, 2.6" (66.04mm)
	WEIGHT	3.25 lbs. (1.47 kg)	4.25 lbs. (1.92 kg)	6.4 lbs. (2.9 kg)

*EIA Standard RS-426A through a 1 kHz 24 dB/octave Linkwitz-Riley crossover



Mylar is a registered trademark of Dupont.

Specifications subject to change without notice.

Depth Diameter

Amplitude vs. Frequency of the Radian 475PB as measured on

a 1" high frequency horn with a one watt (2.83 Vrms) input

at 8 ohms.

LIMITED WARRANTY

Radian Audio Engineering, Inc. products, when sold domestically, are guaranteed for a period of five (5) years from the date of original purchase against malfunctions due to defects in workmanship. If such a malfunction occurs, the product will be repaired or replaced at our option, without charge, if delivered prepaid to the factory. Product will be returned prepaid via ground transport. This warranty does not extend to damage resulting from improper installation, misuse, neglect or abuse. The warranty does not apply to external finish or appearance. The warranty does not apply to burnt voice coils. In no event shall Radian Audio Engineering, Inc. be liable for incidental or consequential damages including, without limitation, injury to persons or property or loss of use.

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