

1kW, FM & Chirp Broadband

- Tunable, Broadband Ceramic Technology:
- Crystal clear image detail and resolution
- Distinguishes individual fish targets and fish tight to the bottom
- 1.000 Watts
- Depth and Temperature—B265
 Depth Only—M265
- Urethane Housings
- Operating Frequencies:
 LF—40 to 60 kHz (Q = 4)
 HF—130 to 210 kHz (Q = 1.5)
- 12 m (39') cable with OEM connector
- Beamwidth: LF—25°

HF-6° to 11°

- Maximum Depth Range:
 LF—529 m to 735 m (1,800' to 2,500')
 HF—206 m to 294 m (700' to 1,000')
- Boat Size: 9 m (30') and up

2 kW, FM & Chirp Broadband

- Tunable, Broadband Ceramic Technology:
 - Crystal clear image detail and resolution
 - Distinguishes individual fish targets and fish tight to the bottom
- 2.000 Watts
- Depth and fast-response temp. sensor
- Thru-Hull, Urethane Housing
- Operating Frequencies:
 LF—38 to 75 kHz (Q = 3)
 HF—130 to 210 kHz (Q = 3)
- 12 m (39') cable with OEM connector
- Beamwidth (Adjustable):
 LF—11° x 18° to 5° x 10°
 HF—7° to 5°
- Maximum Depth Range:
 LF—735 m to 1,176 m (2,500' to 4,000')
 HF—235 m to 353 m (800' to 1,200')
- Boat Size: 9 m (30') and up

2-3 kW, FM & Chirp Broadband

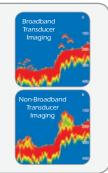
- Tunable, Broadband Ceramic Technology:
 - Crystal clear image detail and resolution
 - Distinguishes individual fish targets and fish tight to the bottom
- 2,000 to 3,000 Watts
- Depth and fast-response temp. sensor
- Thru-Hull, Urethane Housings
- Operating Frequencies:
 LF—33 to 60 kHz—R209 (Q = 3)
 LF—25 to 45 kHz—R309 (Q = 3)
 HF—130 to 210 kHz—R209 & R309 (Q = 3)
- 12 m (39') cable with OEM connector
- Beamwidth (Adjustable):
 LF—11° x 17° to 6° x 11°
 HF—7° to 5°
- Maximum Depth Range:
 LF—914 m to 1,372 m (3,000' to 4,500')
 HF—235 m to 353 m (800' to 1,200')
- Boat Size: 12 m (40') and up

2-3 kW, FM & Chirp Broadband Tunable, Broadband Ceramic Technology:

- Crystal clear image detail and resolution
- Crystal clear image detail and resolution
- Distinguishes individual fish targets and fish tight to the bottom
- 2,000 to 3,000 Watts
- Depth Only
- In-Hull, Epoxy Housings
- Operating Frequencies:
 LF—33 to 60 kHz—R299 (Q = 3)
 LF—25 to 45 kHz—R399 (Q = 3)
 HF—130 to 210 kHz—R399 & R399 (Q = 3)
- 12 m (39') cable with OEM connector
- Beamwidth (Adjustable):
 LF—11° x 17° to 6° x 11°
 HF—7° to 5°
- Maximum Depth Range:
 LF—914 m to 1,372 m (3,000' to 4,500')
 HF—235 m to 353 m (800' to 1,200')
- Boat Size: 9 m (30') and up

Broadband Transducers

- Broadband Ceramic Technology:
 - Crystal clear image detail and resolution
- Distinguishes individual fish targets and fish tight to the bottom
- Adjustable frequencies allow tunable echosounders to dial in a certain frequency for the specific fishing conditions
- Adjusting frequency changes the transducer beamwidth and depth capabilities





R109

R209, R309 R299, R399

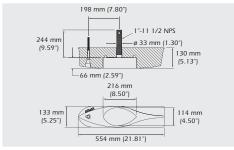


40-60 kHz-A / 130-210 kHz-C			
Number of Elements and Configuration		₩	
RMS Power (W)		1 kW	1 kW
TVR		161 dB @ 50 kHz	174 dB @ 200 kHz
RVR		-175 dB @ 50 kHz	-181 dB @ 200 kHz
FOM		-19 @ 50 kHz	-7 @ 200 kHz
Q		4 @ 50 kHz	1.5 @ 200 kHz
Impedance	506 Ω @ 40 kHz	204 Ω @ 50 kHz	560 Ω @ 60 kHz
	360 Ω @ 140 kHz	565 Ω @ 160 kHz	571 Ω @ 200 kHz

38-75 kHz-A / 130-210 kHz-BRlq			
Number of Elements and Configuration			
RMS Power (W)		2 kW	2 kW
TVR		167 dB @ 50 kHz	177 dB @ 200 kHz
RVR		-174 dB @ 50 kHz	-182 dB @ 200 kHz
FOM		-9 @ 50 kHz	-6 @ 200 kHz
Q		3 @ 50 kHz	2 @ 200 kHz
Impedance	161 Ω @ 38 kHz	129 Ω @ 50 kHz	107 Ω @ 75 kHz
	169 Ω @ 140 kHz	250 Ω @ 160 kHz	314 Ω @ 200 kHz

R209-33-60 kHz 130-210 kHz			
Number of Elements and Configuration			
RMS Power (W)		3 kW	2 kW
TVR		171 dB @ 50 kHz	172 dB @ 200 kHz
RVR		-177 dB @ 50 kHz	-184 dB @ 200 kHz
FOM		-7 @ 50 kHz	-12 @ 200 kHz
G		3 @ 50 kHz	3 @ 200 kHz
Impedance	165 Ω @ 38 kHz	148 Ω @ 50 kHz	208 Ω @ 60 kHz
	169 Ω @ 140 kHz	250 Ω @ 160 kHz	314 Ω @ 200 kHz

R299-33-60 kHz 130-210 kHz			
Number of Elements and Configuration			
RMS Power (W)		3 kW	2 kW
TVR		171 dB @ 50 kHz	172 dB @ 200 kHz
RVR		-177 dB @ 50 kHz	-184 dB @ 200 kHz
FOM		-7 @ 50 kHz	-12 @ 200 kHz
Q		3 @ 50 kHz	3 @ 200 kHz
Impedance	165 Ω @ 38 kHz	148 Ω @ 50 kHz	208 Ω @ 60 kHz
	169 Ω @ 140 kHz	250 Ω @ 160 kHz	314 Ω @ 200 kHz

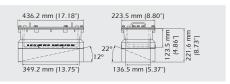


130 mm (5.13°) 130 mm (5.13°) 216 mm (8.50°) 133 mm (4.50°)	Transducer 570 mm (22.44")
554 mm (21.81")	Installing the Transducer
	•
221 mm (8.69°) (8.69°)	A44.5 mm (17.50") Cable Stuffing tube Backing Hu Fairing Transdu Temperature sensor

R309–25-45 kHz 130-210 kHz			
Number of Elements and Configuration			
RMS Power (W)		3 kW	2 kW
TVR		169 dB @ 50 kHz	172 dB @ 200 kHz
RVR		-167 dB @ 50 kHz	-184 dB @ 200 kHz
FOM		-5 @ 50 kHz	-12 @ 200 kHz
G		3 @ 50 kHz	3 @ 200 kHz
Impedance	187 Ω @ 28 kHz	185 Ω @ 38 kHz	228 Ω @ 45 kHz
	169 Ω @ 140 kHz	250 Ω @ 160 kHz	314 Ω @ 200 kHz

587.2 mm (23.12')
Tran	169.7 mr (6.687)
sducer	n 105.7 mr (4.16")

R399–25-45 kHz 130-210 kHz		
Number of Elements and Configuration		
RMS Power (W)		2 kW
TVR		172 dB @ 200 kHz
RVR		-184 dB @ 200 kHz
FOM		-12 @ 200 kHz
Q		3 @ 200 kHz
187 Ω @ 28 kHz	185 Ω @ 38 kHz	228 Ω @ 45 kHz
169 Ω @ 140 kHz	250 Ω @ 160 kHz	314 Ω @ 200 kHz
	187 Ω @ 28 kHz 169 Ω	Pation 3 kW 169 dB 9 50 kHz -167 dB 9 50 kHz -3 9 50 kHz 3 9 50 kHz 187 Ω 9 28 kHz 189 Ω 9 28 kHz 169 Ω 250 Ω









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