



HIGH PERFORMANCE CAR AUDIO



High Efficiency Midrange Speaker



MODEL

HCCA64N

HCCA68N

HCCA84N

HCCA88N

HCCA104N

HCCA108N

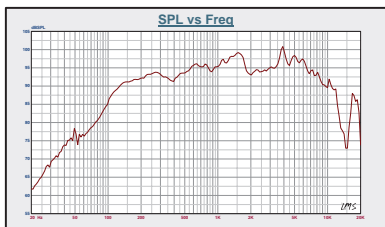
OWNER'S MANUAL

HCCA Thin Features

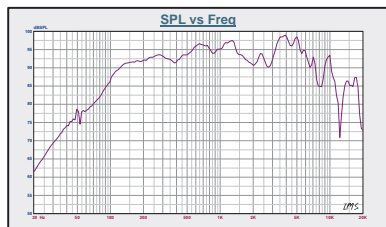
- Steel Basket
- High Strength Paper Cone
- Cloth edge
- Cooper on Kapton Former HCCA
- Poly Cotton Spider

Specifications	HCCA64N	HCCA68N	HCCA84N	HCCA88N	HCCA104N	HCCA108N
RMS Power Watts	350	350	500	500	550	550
Nominal Power Watts	700	700	1000	1000	1100	1100
MAX Music Power Watts	1400	1400	2000	2000	2200	2200
Nom Impedance(Ohm)	4	8	4	8	4	8
Voice Coil	1.5	1.5	2.5	2.5	3.0	3.0
Magnet Structure	NEO	NEO	NEO	NEO	NEO	NEO
Fs(Hz)	130	130	110	110	105	105
Qms	7.82	7.82	9.07	9.07	9.5	9.5
Qes	0.408	0.408	0.307	0.307	0.252	0.252
Qts	0.388	0.388	0.29	0.29	0.246	0.246
SPL(dB)	99	99.2	99.9	99.8	101.3	101.4
Overall Depth L1	75.5	75.5	90	90	111	111
Mounting Depth L1	67.2	67.2	81	81	99	99
Overall Diameter L2	174	174	209	209	260	260
Mounting Diameter L2	146	146	182	182	234	234

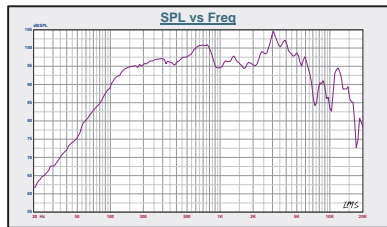
RESPONSE AND IMPEDANCE CURVES, 1W/1M



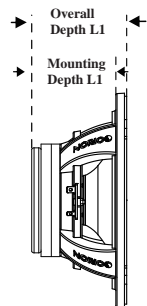
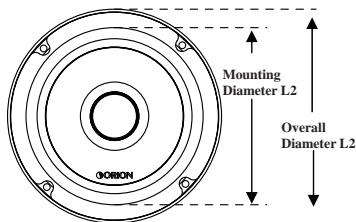
HCCA64N/HCCA68N



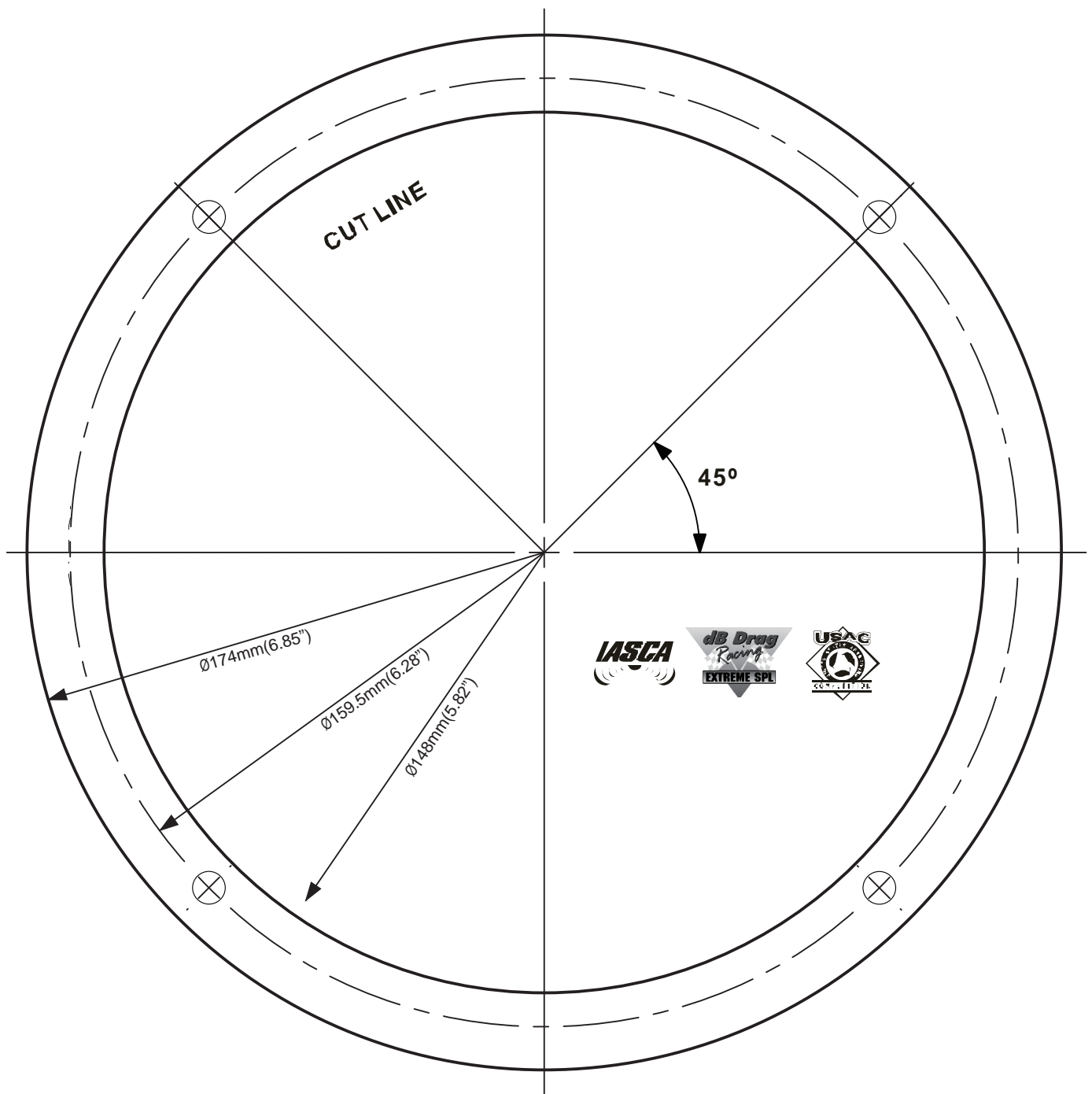
HCCA84N/HCCA88N



HCCA104N/HCCA108N



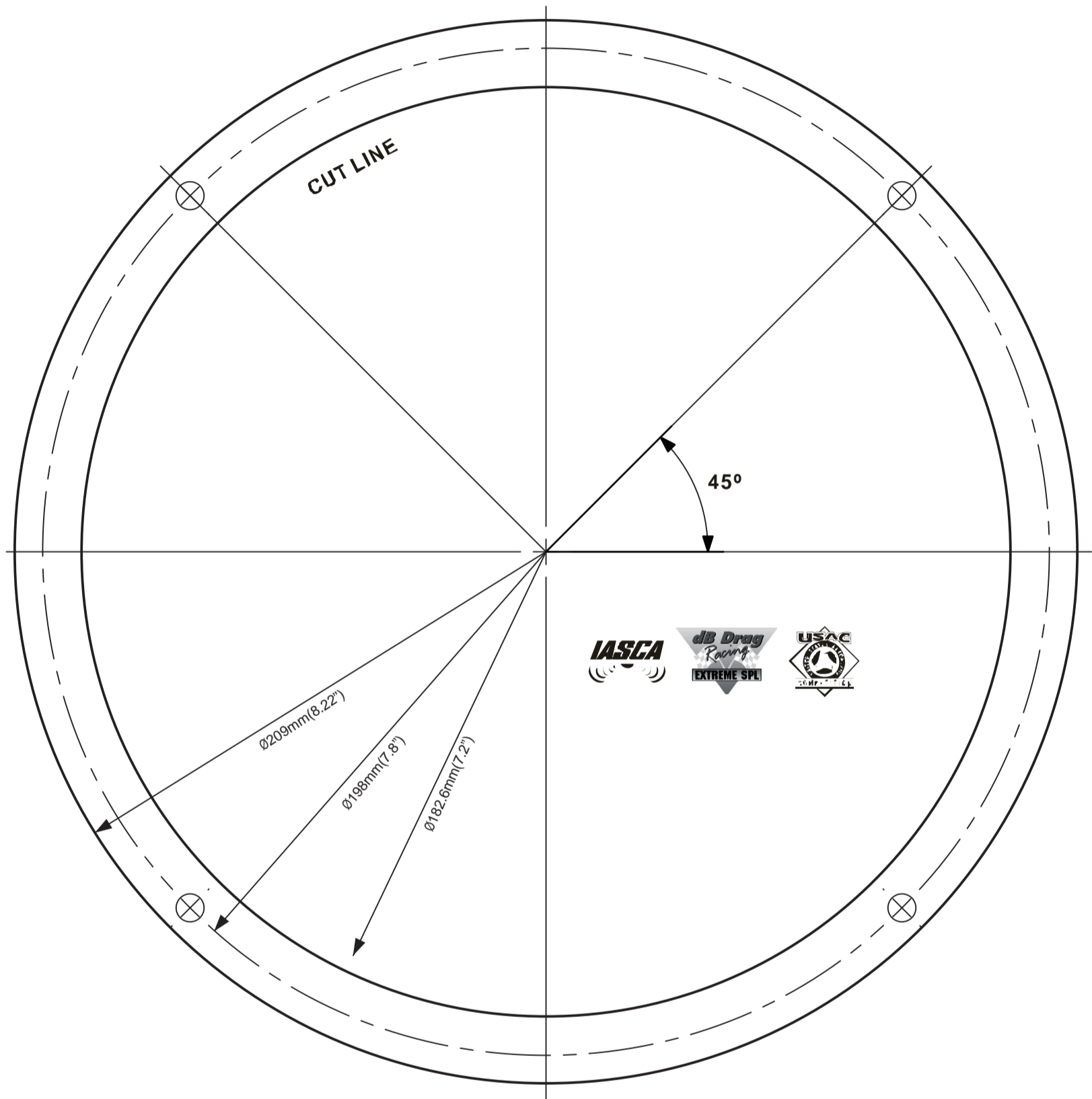
TEMPLATE FOR HCCA64N/HCCA68N



SPEAKER PARAMETER

MODEL	FO(Hz)	Qms	Qes	Qts	Vas(Liter)	SPL(dB)	Max Music Power(W)
HCCA64N	130	7.82	0.408	0.388	4.7	99	1400
HCCA68N	130	7.82	0.408	0.388	4.7	99.2	1400

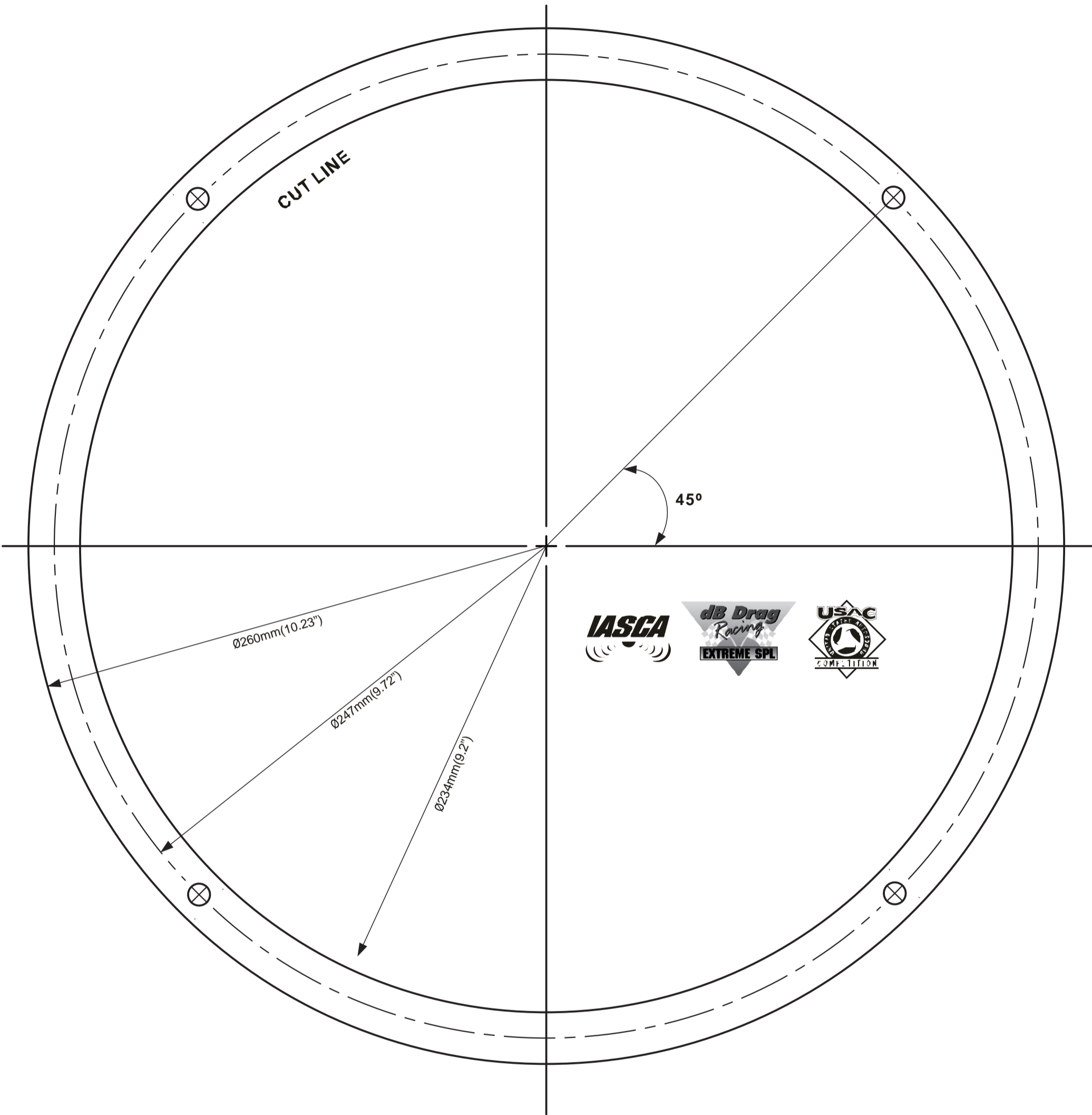
TEMPLATE FOR HCCA84N/HCCA88N



SPEAKER PARAMETER

MODEL	FO(Hz)	Qms	Qes	Qts	Vas(Liter)	SPL(dB)	Power(W)
HCCA84N	110	9.07	0.307	0.29	7.2	99.9	2000
HCCA88N	110	9.07	0.307	0.29	7.2	99.8	2000

TEMPLATE FOR HCCA104N/HCCA108N



SPEAKER PARAMETER

MODEL	FO(Hz)	Q _{ms}	Q _{es}	Q _{ts}	Vas(Liter)	SPL(dB)	Power(W)
HCCA104N	105	9.5	0.252	0.246	14.9	101.3	2200
HCCA108N	105	9.5	0.252	0.246	14.9	101.4	2200

