

PROFESSIONAL

by **HARMAN**Service Manual

VLA-C265-BK
Two-Way Full Range Loudspeaker with 2 x 10" Differential Drive® LF





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JBL Professional Engineering

Loudspeaker Engineering Design Specification Date Effective: 8/6/2018

Date Revised:

8/6/2018

Number 1000320931

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GENERAL DESCRIPTION

MODEL: VLA-C265

DESCRIPTION: Dual 10", Two-Way Line Array

SYSTEM COMPONENTS

LF 354964-003 2261FF x2 (EDS #1922) HF 5020810 D2415 x3 (EDS #1000112860)

ACOUSTICAL AND ELECTRICAL SPECIFICATIONS

 $\begin{array}{lll} \text{Sensitivity} - \text{Raw pass bands} & \text{See attached curves, page 2} \\ \text{Frequency Response (-3dB)} & 108\text{Hz} - 16.7 \text{ kHz } (4\pi) \\ \text{Frequency Response (-6dB)} & 96\text{Hz} - 18.2 \text{ kHz } (4\pi) \\ \text{Frequency Response (-10dB)} & 85\text{Hz} - 19.2 \text{ kHz } (4\pi) \\ \end{array}$

Rated Impedance Passive: 8Ω , LF: 8Ω , HF: 16Ω Minimum Impedance Passive: 6.6Ω @ 162 Hz, LF: 6.8Ω @ 185 Hz,

HF: 16.2 Ω @ 11 kHz

Crossover Frequency 950Hz Coverage (-6dB) $75^{\circ} \times 5^{\circ}$

Power Handling with Array preset Passive 80Vrms / 160Vpk @ 100hrs, SMS Power Handling with Array preset LF 80Vrms / 160Vpk @ 100hrs, SMS Power Handling with Array preset HF 50Vrms / 135Vpk @ 100hrs, SMS

Maximum SPL measured with Array Preset 137.9 dB

(2m GP, NTI XL2, 12dB CF Pink Noise)

System Input Type Barrier Strip

System Polarity All (+) polarity when driven from (+) pin – EXCEPT

with Passive Network: HF(-)

System Protection DSP driven

Speaker DSP File 1000336780

Engineering Test Specification: 1000320930

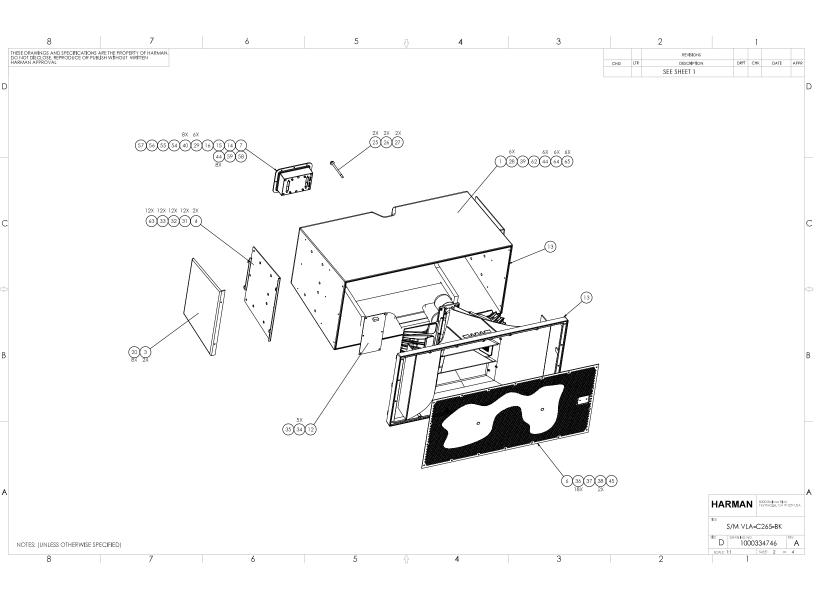
PHYSICAL SPECIFICATIONS

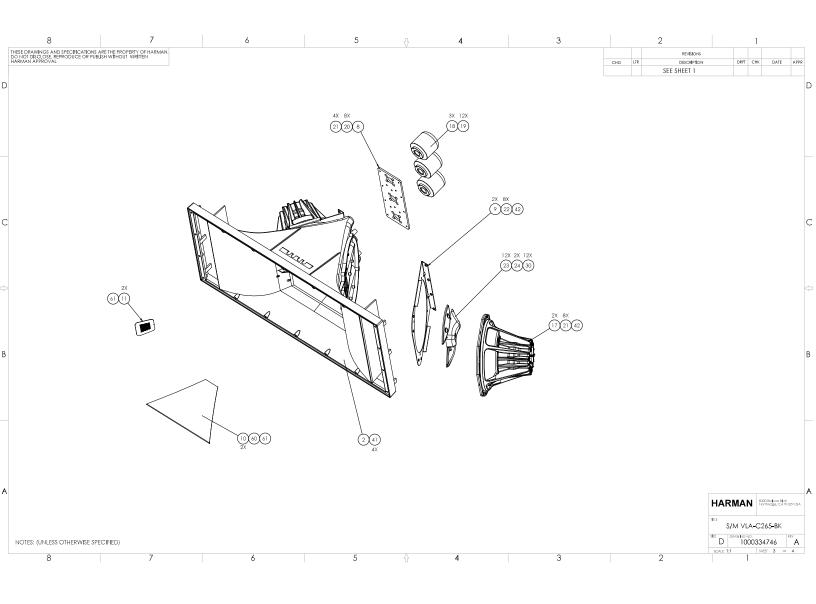
Enclosure Volume for each LF 1.3 cu.ft. / 36liters

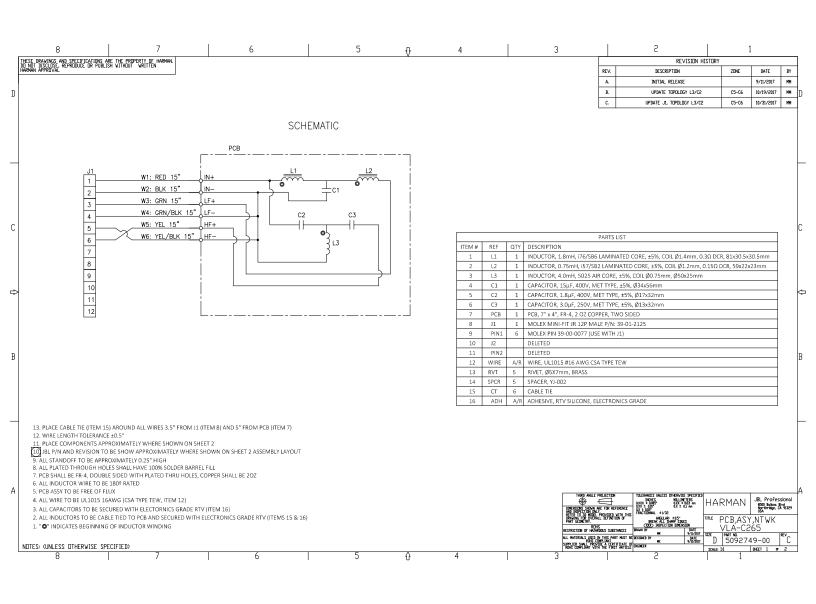
Maximum External Dimensions (in/mm) 15.0/380 H × 33.4/848 W × 18.3/466 D

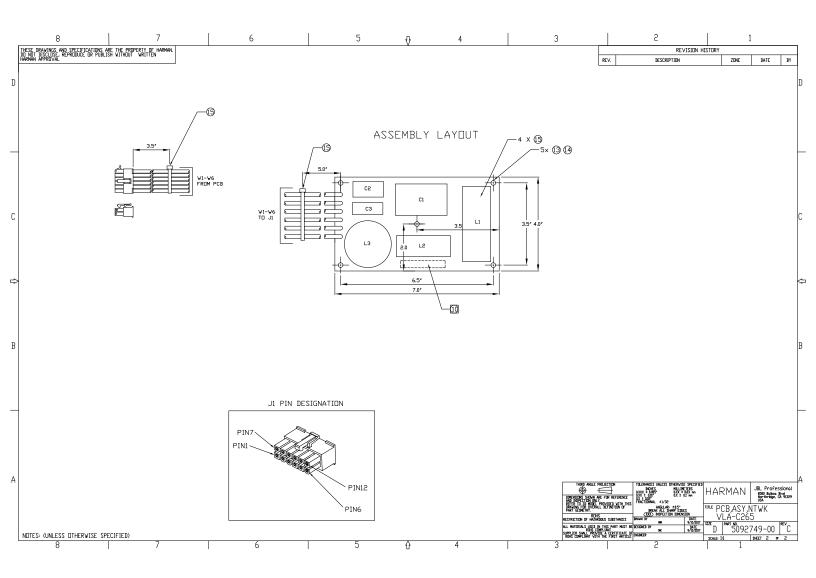
Weight (ea.) 83 lbs / 37.7 kg

DESIGN ENGINEER









Bill of Materials

Number	Bill of Materials	LOugntity	Illnit
Number	Name	Quantity	Uniii
VLA-C265-BK	S/M, VLA-C265-BK	144	Courses Foot CF
22389P	FBRGL,1"x72",600SF/ROLL	14	Square Foot SF
315953-001	BAG,ZIPLOCK,9X12	2	each
352951-001	THREADLOCK, 9 GRAM STICK, LOCTITE 248	0.001	gram
354964-003	M/I, 2261FF	2	each
29074S	PRIMER,BOSTIC,98,O/P,15	0.2	ounce
31385-08	D/DOME, 2161FF	1	each
333101-001	ADH,LOCTITE,4204/PRISM,CLEAR	2.8	ounce
335-00022-00	MAGNET, 2265H	1	each
337035-001	SHORT RING, 2265	1	each
337317-001	RIVET, 2265H	1	each
339-36001-00	POLE PLATE, 2265H	2	each
340-30003-00	GAP SLEEVE, 226X	1	each
353219-001	ACTIVATOR, LOCTITE 7091, VARIOUS	0.007	Milliliter
353289-002	CONE COMPLIANCE(STRAIGHT BODY) 2261	1	each
353595-002	FRAME, 10", 2261H (TUMBLE DEBURRED)	1	each
354130-001	SPIDER, 2261	1	each
362890-001	SOLDER, MULTICORE 96SC (SAC 357)	0.28	gram
363236-003	VOICE COIL ASSY, 2261FF	1	each
363672-001	TINSEL LEAD, DUAL, 2261FF	1	each
363751-001	TERMINAL CUP ASSY, CSYS-U1	1	each
364219-002	ACC, CYBERBOND BLAST 6003 (SAME AS -001)	0.001	gram
364743-001	TRIM RING, 261G	1	each
440906-001	ADHESIVE, LOCTITE E120	1.5	Milliliter
440906-002	ADHESIVE, LOCTITE E120 400ml	1.16	Milliliter
444641-002	LABEL, 2261FF (HADM)	1	each
5036645	CLIP, RETAINER, DVC	2	each
71396	ADH,AIRFLEX,400	5.95	gram
71636-27	SHIM, 2262	0.05	Piece
71666	ADH, SPEEDBONDER 3270	0.2	ounce
72266	ADH,SICOMET,5181	6.5	gram
74822	LBL, DTC	1	each
72471	RIBBON,XFR,THRM,4.5"x1181	0.2	Meter
75225	LABEL, BLANK	1	each
863-41610-08	SCR,8-32 X 1/2,PAN,PH,TT,BLK ZINC,LCS	2	each
	ADHESIVES/PAINTS/CHEMICALS/LABELS/ETCALL	1.999	Piece
364542-001	WASHER, 3/8x.875 STAINLESS NEOPRENE BACK	12	each
364835-001	GASKET, ENCLOSURE EON515	17	Lineal Foot
49790P	MICROFOAM 1/32X18X20	8	each
5018271	Large Plastic Logo, STX800	1	each
5020810	M/I, D2415	3	each
352859-001	ADH, MOYEN 3087	0.001	Milliliter
353928-002	VOICE COIL, 2408J	2	each
353929-999	FINISHED, DIAPHRAGM, 2408	2	
		1	each
353929-001	DIAPHRAGM, 2408		each
361864-001	DUPONT TEIJIN FILM TOENEX	27	Square inch
354261-001	RING, CENTER, 2408H	2	each
354266-001	PSA, INNER RING, 2408H	6	each
354312-001	PSA, OUTER	2	each
361513-001	KAPTON FILM-TAPE, 5mm WIDE, 0.025 MM THK	0.2	Lineal Foot

361514-001	TERMINAL BOARD, .250, 2408H	1	leach
361514-002	TERMINAL BOARD, .187, 2408H	1	each
361514-003	TERMINAL BOARD, .250, WHITE	1	each
361514-004	TERMINAL BOARD,187, WHITE	1	each
361573-001	PSA STRIP, 2408H	8	each
362890-001	SOLDER, MULTICORE 96SC (SAC 357)	0.001	gram
363073-001	GLASS BEADS, COMCO INC., P/N PD1033-3	0.096	US pound
363122-001	SILICONE SEALANT	0.001	gram
365108-001	RUBBER RING, 2408H-1	2	each
444956-010	LABEL, D2415	1	each
5013144	LABEL, TERMINAL FRONT DRIVER (POS) D2430K	1	each
5013145	LABEL, TERMINAL FRONT DRIVER (NEG) D2430K	1	each
5013147	LABEL, TERMINAL REAR DRIVER (POS) D2430K	1	each
5013149	LABEL, TERMINAL REAR DRIVER (NEG) D2430K	1	each
5020759	D2415 POLE PIECE REAR	1	each
5020760	D2415 TOP PLATE FRONT	1	each
5020761	D2415 TOP PLATE REAR	1	each
5020762	D2415 PHASING PLUG FRONT	1	each
5020765	D2415 PHASING PLUG REAR	1	each
5020774	D2415 OD SPACER RING	2	each
5031164	D2415 POLE PIECE FRONT	1	each
5031167	D2415 MAGNET	2	each
5031660	D2415 HEAT SINK	1	each
5038516	D2415 SCREEN	1	each
5038781	JUMPER WIRE, D2415	1	each
5083690	FERROFLUID, APG CDF 1120	0.24	Cubic Centi Meter
5086939	ADHESIVE, LOCTITE E-120HP	0.058	Milliliter
5086940	ADHESIVE, RESIN E-120HP	1	gram
5086941	ADHESIVE, HARDENER E-120HP	0.5	gram
63627	ADH,C.A.,SICO-MET	1	ounce
69437	ADHES,LOCTITE 242	0.001	Milliliter
71666	ADH, SPEEDBONDER 3270	0.001	ounce
71667	PRIMER,ADH,LOCTITE 7090	0.001	ounce
803-73056-09	SCR, 8-32 x 9/16, SCT, HEX, NF, SS	4	each
803-73056-18	SCR, 8-32 x 1- 1/8, SCT, HEX, NFD, SS	1	each
5036396	1/4 BONDED SEALER WASHER S/S	2	each
5057179	COVER, 1/2", WATERPROOF, BLK	1	each
5057643	HEYCO LIQUID TIGHT M3216, W/NUT, FOR 1/2"	1	each
5057646	GASKET, WATER SEAL, INPUT CUP	1	each
5059045	JUMPER WIRE, GREEN, PD500	1	each
5059046	JUMPER WIRE, GRN/BLK, PD500	1	each
5059047	JUMPER WIRE, YELLOW, PD500	1	each
5059048	JUMPER WIRE, YEL/BLK, PD500	1	each
5080663	INPUT CUP ASSY, WRX, BLACK	1	each
5081025	SIDE PLATE, VLA-C265	2	each
5082315	HORN, VLA-C265	1	each
5082336	HF PLATE, VLA-C265	1	each
5082337	WOOFER PLATE, VLA-C265	2	each
	IMOOI LITT LATE, VLA-0200		
5082340	V-GRILL, HORN, VLA-C265	2	each
	· · · · · · · · · · · · · · · · · · ·		each each
5082340	V-GRILL, HORN, VLA-C265	2	
5082340 5084048	V-GRILL, HORN, VLA-C265 GRILLE, FRONT, VLA-C265/2100	2	each

5088929-00	LABEL, OVERLAY, VLA-C	1	each
5089347-00	GASKET, RBI, VLA-C	2	each
5089984-00	HYDROMESH, VLA-C2100	1	each
5090639-00	FSTNR,WSHR,LKW,M10,SST	12	each
5090833-00	FSTNR,MSCR,FLH,PH,8-32X3/8",SST	12	each
5090853-00	HDWR,FOAM STRIP,EDPM,1/2WD,1/16THK	0.2	Piece
5090856-00	SHPMAT,CTN	1	each
5091137-00	HDW, BRKT, ANGLE PL	2	each
5092749-00	PCB,ASY,NTWK,VLA-C265	1	each
5092750-00	TAPE,PAINTERS,24mm,3M 2090	8	Foot
5092751-00	ADH, SILIC, CLEAR, GE IRON GRIP	10	gram
5092804-00	ADH,MULTI PURPOSE,SPRAY,TL	10	gram
5093074-00	SPKRSYS, GRL, HORN, SMALL	2	each
5093577-00	FSTNR,RVT,SNAP,BLK,0.093"THK	2	each
5093592-00	ENCL, PNL, SIDE	2	each
5093593-00	ENC, FG, BLK	1	each
5082668	INNER PLATE, ENCL, VLA-C265	2	each
5083836	INNER TRIM, ENC, VLA-C (INPUT CUP)	1	each
5089084-00	STIFFENER ASSY, VLA-C265	1	each
5086721	STIFFENER, TOP/BOT, VLA-265	2	each
334003-002	PLYWD,BALT,18mm,48"x96"	1.28	Square Foot SF
5086722	STIFFENER, SIDE, VLA-C265	2	each
334003-002	PLYWD,BALT,18mm,48"x96"	1.524	Square Foot SF
5095210-00	SHPMAT,FLR,VLA-C265	2	each
5095211-00	LBL,PRNT,UNDERLAY,VLA-C265-BK	1	each
5082073	LABEL, STOCK UNDERLAY, WRX INPUT CUP	0.029	Piece
5096109-00	HDW, #8X3/8, SLFTAP, TRUSS, PHI, SS	12	each
5097116-00	FSTNR,MSCR,FLH,PH,6-32x3/4in,SS	12	each
5100158-00	FSTNR,MSCR,PH-PNH,8-32x3/8in,SS,BLK	18	each
5100161-00	FSTNR,TAP,PH-PNH,6x3/4in,TYPE AB,SS,BLK	6	each
5101936-00	FSTNR,MSCR,PH-PNH,6-32x5/8in,SS,BLK	8	each
5101962-00	FSTNR,MSCR,FLH,PH,6-32x1/2in,SS,BLK	6	each
5101963-00	FSTNR,MSCR,PH-PNH,8-32x1/2in,SS,BLK	16	each
5101965-00	FSTNR,WSHR,FLW,SIZE6,SS,BLK	6	each
5106918-00	FSTNR,WSHR,0.12x0.25x0.047-0.077in,RBR	6	each
59660	WARRANTY CARD, 5YR,PRO	1	each
802-31156-12	SCR,6-32 x 3/4 PHIL,TRUSS,MS 18-8 SS	8	each
804-41156-12	SCR,10-32 X 3/4,PAN,PH,NO FIN, SS	12	each
818-93756-35	M-10 - 1.5 X 35MM BUT HD SOCK C/S 18-8	12	each
841-90056-00	WASHER, #6 BONDED SEALING NEO SS	14	each
844-03156-06	1/4 SPLIT LOCK WASHER STAINELSS STEEL	2	each
854-00056-64	1/4-20 X 4 HEX HD SS	2	each
883-31156-10	SCR,8 X 5/8,TRUSS,PH,PB,NO FIN, SS	4	each
883-41110-12	SCR,8 X 3/4,PAN,PH,PB,BLK ZINC,LCS	5	each