



PROFESSIONAL
by **HARMAN**

Service Manual

VPX725

Dual 15" High-Power Two-Way Speaker



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VPX725

Dual 15" High-Power
Two-way Speaker

Professional Series

Key Features:

- ▶ 15" high efficiency woofer
- ▶ 1.5" annular polymer diaphragm compression driver
- ▶ Enclosure constructed of premium plywood and finished in black DuraFlex™ coating
- ▶ 70° × 60° (H × V) coverage pattern for even and smooth response on and off axis
- ▶ Heavy-duty 16-gauge protective screen backed steel grille
- ▶ 12 rigging points for suspension installation

Applications:

- ▶ Sound reinforcement for live music and speech or pre-recorded applications
- ▶ As satellite speaker for use with subwoofers

VPX725 is a dual 15" two-way speaker system designed for live music, speech or pre-recorded applications.

VPX725 uses a 1.5" JBL 2408H-1 annular polymer diaphragm neodymium compression driver to collaborate with two (2) 15" high efficiency woofers for acoustic reproduction of high power, low distortion and low power compression. The 15" woofers embed an optimal demodulating cooling aluminum ring, hence, stable performance is guaranteed even after long working hours. The speaker system creates a 70° × 60° (H × V) coverage pattern to ensure even and smooth response no matter on or off axis.

VPX725 is designed for versatile installation. Twelve (12) suspension points are available for flying mounting and convenient orientation adjust. Two (2) integral handles make it easier to transport and install.

The entire system presents itself in a professional and low profile manner and aims to provide prolonged reliability and durability to its users. The trapezoidal enclosure is constructed of quality plywood and finished in rugged DuraFlex™ coating to sustain frequent transit and set-up. The front grille is made from 16-gauge steel and backed with acoustically transparent fabrics to provide adequate protection to drivers and circuits inside.



Specifications:

System:	
Frequency Range (-10 dB) ¹ :	40 Hz - 20 kHz
Frequency Response (±3 dB) ¹ :	60 Hz - 20 kHz
Coverage Pattern:	70° × 60° (H × V)
Crossover Mode:	Passive
Crossover Frequency:	1.9 kHz
Power Rating ¹ :	900 W/1800 W/3600 W (Continuous/Program/Peak)
Sensitivity (1w@1m) ² :	100 dB
Nominal Impedance:	4 Ohms
Maximum SPL ³ :	130 dB (136 dB peak)
Physical:	
LF Driver:	2 × 15" (381.00 mm) woofers
HF Driver:	1 × JBL 2408H-1 tweeter
Enclosure:	Trapezoidal, 15/18 mm, plywood
Suspension / Mounting:	12 points (3@top, 3@bottom, 2@each side, 2@rear), M10 thread hardware
Transport:	2 × die-cast handles with backing cup
Finish:	Black DuraFlex™ finish
Grille:	Powder coated, black, 16-gauge perforated steel with acoustically transparent black screen backing
Input Connectors:	2 × Neutrik® Speakon® NL-4
Dimensions (H × W × D):	1244 mm × 535 mm × 459 mm (49.0 in × 21.1 in × 18.1 in)
Net Weight:	44.86 Kg (98.90 lbs)

1 IEC standard, pink noise with 6 dB crest factor for 2 hours

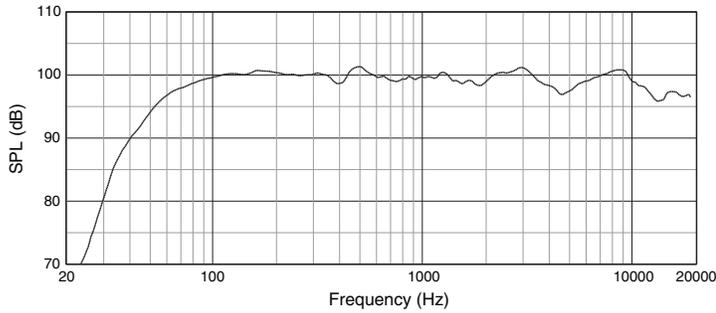
2 Full space (4π) conditions

3 Calculated maximum SPL based on rated power handling

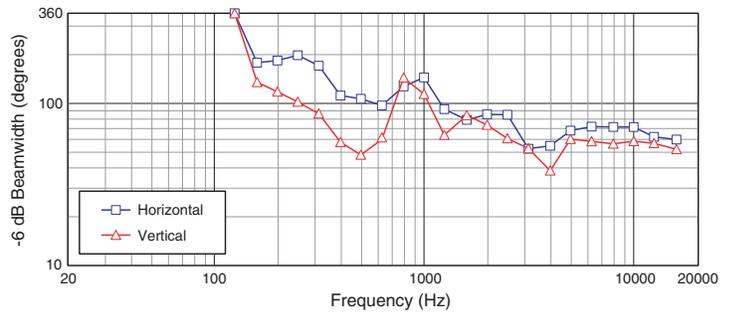
JBL continually engages in research related to product improvement. Some materials, production methods and design refinements are introduced into existing products without notice as a routine expression of that philosophy. For this reason, any current JBL product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise stated.

▶ VPX725 Dual 15" High-Power Two-way Speaker

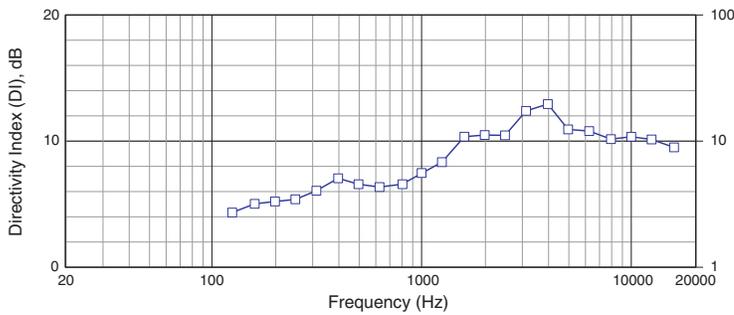
Frequency Response:



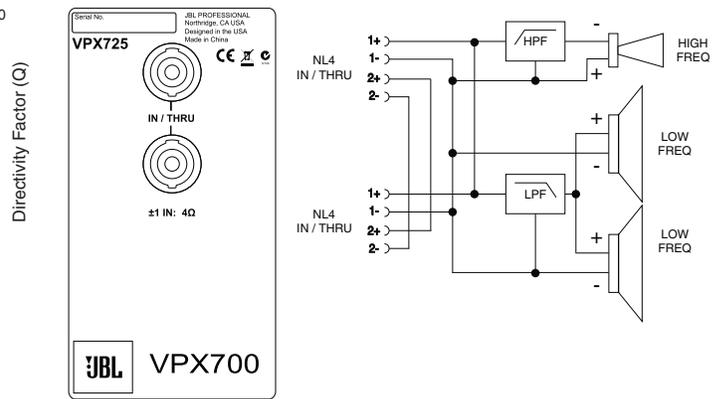
Beamwidth:



Directivity Index:

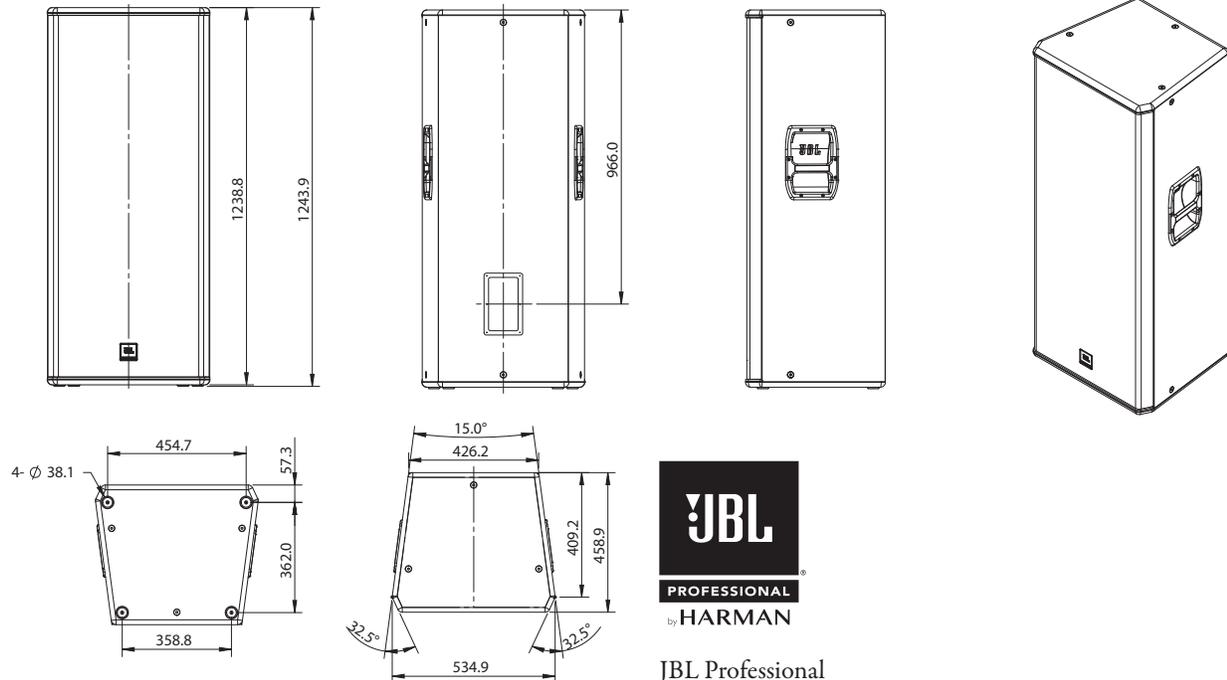


Block Diagram:



Dimensions:

Dimensions in mm



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VPX725
SZ
26/01/18

JBL Professional Engineering	Engineering Standard Engineering Design Specification	Date Effective: 03/06/2018 Date Revised:	Number 1000323747 Rev B Page 1
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GENERAL DESCRIPTION

Model: VPX725
Description: 2x15" two way, full range speaker

ACOUSTICAL AND ELECTRICAL SPECIFICATIONS

Frequency Range (-10dB).....40Hz to 20KHz
(see attached curve, page2)
System Input Type.....Neutrik connector NL4MP
Rated System Input Impedance.....4 Ω
System Power Handling.....See ETS #1000323752
Crossover Frequency.....1.9kHz
Sensitivity (1W@1m).....100dB

PHYSICAL SPECIFICATIONS

Enclosure Volume.....190.0L
Net Enclosure Volume.....183.0L
Maximum External Dimensions.....1244mm(H) x 535mm(W) x 459mm(D)
Weight (ea.).....45.6kgs

SYSTEM COMPONENTS

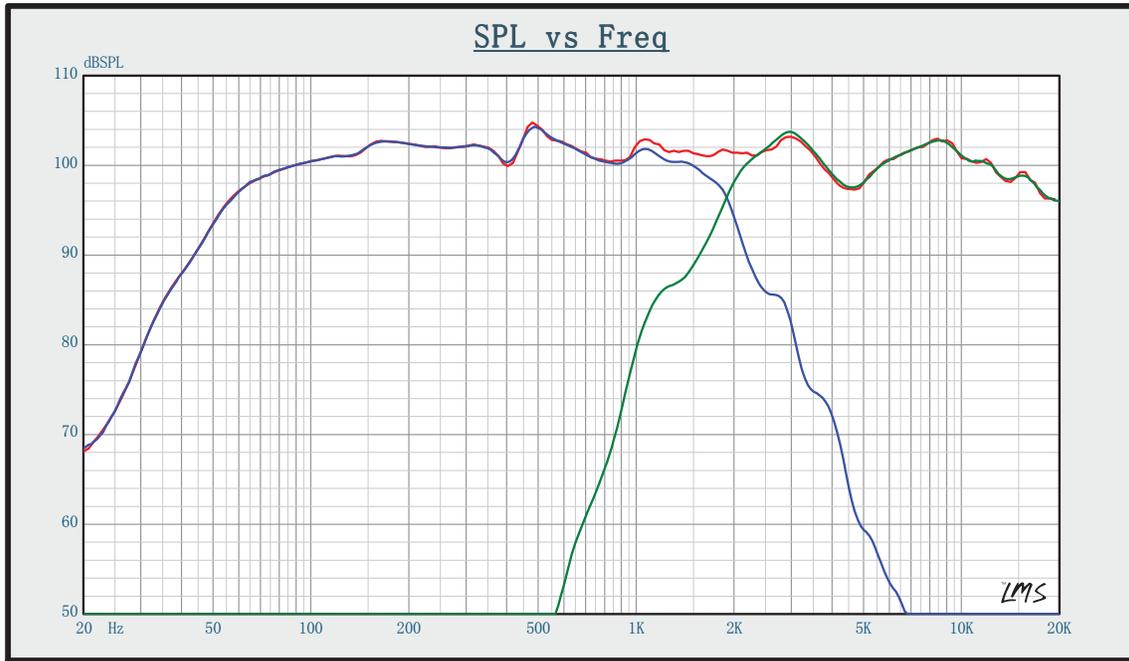
Low Frequency Transducer.....2x15" woofer (EDS #1000141211)
High Frequency Transducer.....1x2408H-1 (EDS #2031)
Crossover Network Assembly.....5094443-00

Design Engineer: Jason Wu

<p>JBL Professional Engineering</p>	<p>Engineering Standard Engineering Design Specification</p>	<p>Date Effective: 03/06/2018 Date Revised:</p>	<p>Number 1000323747 Rev B Page 2</p>
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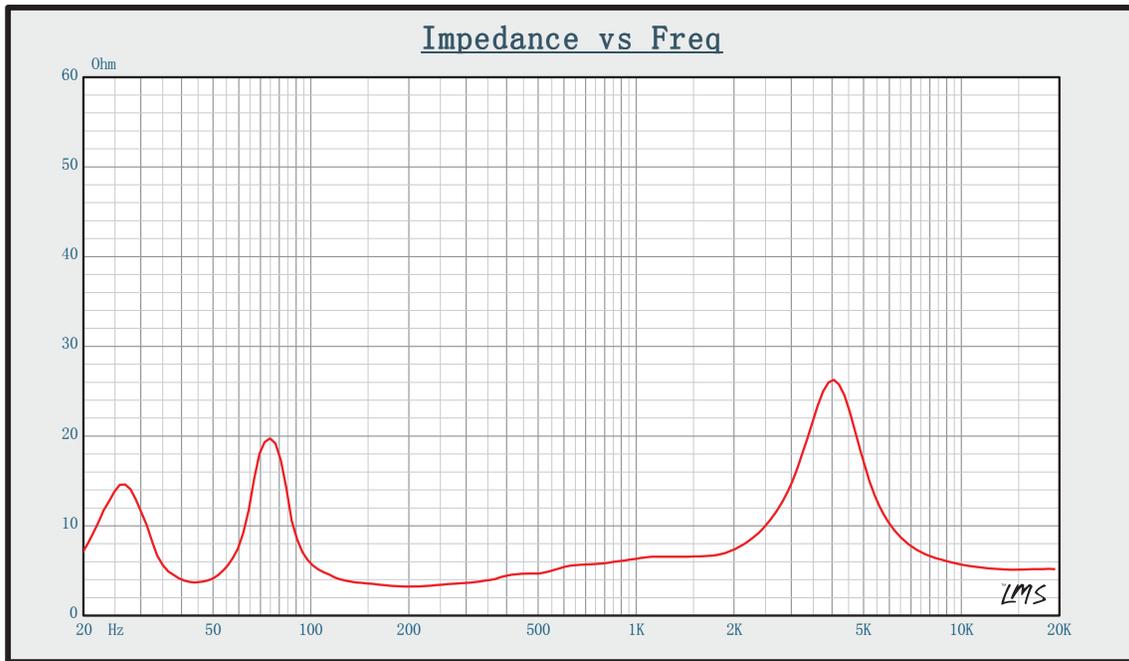
On-Axis Bandpass Summation

System measured in 2.83V@1m with Soundcheck



System Impedance

System measured in 2.83V with Soundcheck

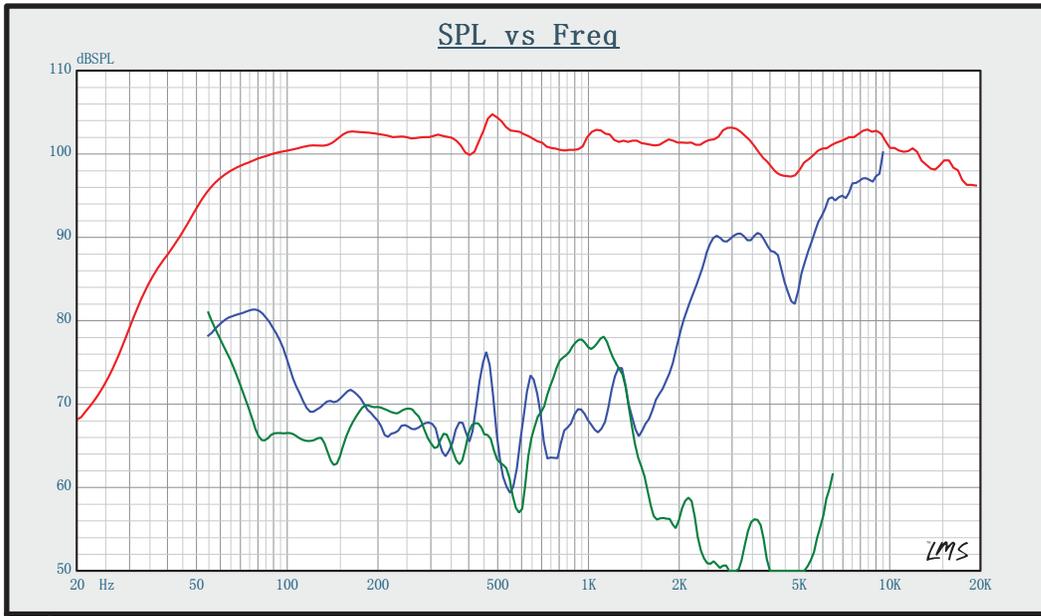


JBL Professional Engineering	Engineering Standard Engineering Design Specification	Date Effective: 03/06/2018 Date Revised:	Number 1000323747 Rev B Page 3
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Harmonic Distortion

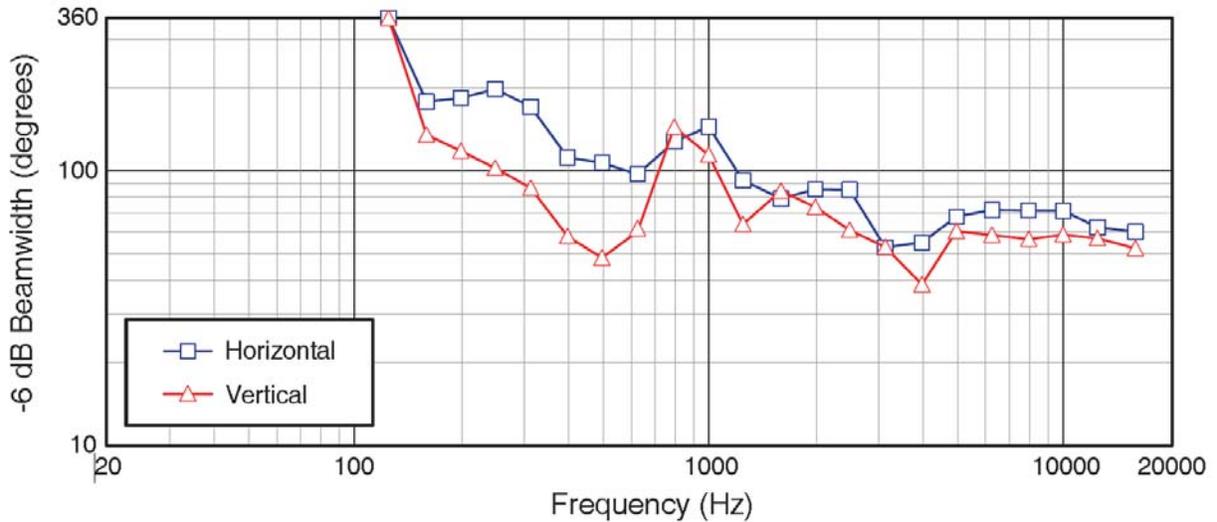
System measured in 2.83V@1m with Soundcheck

Red trace is the fundamental, blue trace is the 2nd harmonic +30dB, and the green trace is the 3rd harmonic +30dB



Beamwidth

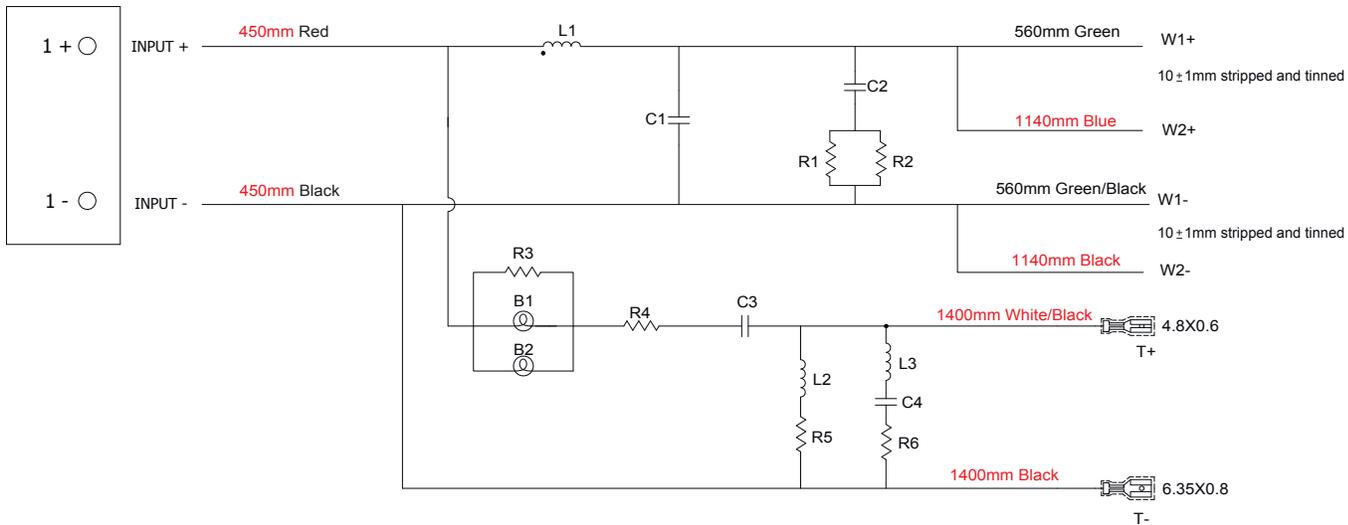
System measured with MLSSA.



Revision History

Revision	Release Action	Date	Rev Initials
A		01/17/2018	Jason Wu
B		03/06/2018	Jason Wu

REVISION HISTORY					
DATE	REV.	PREVIOUS PART NO.	DESCRIPTION	ZONE	BY
10/30/2017	A.1				PZ
12/27/2017	A.2		CHANGE R4/R5/R6		



- B1 & B2 BULB, SYLVANIA, SK-3 CWTLDS
- L1 0.6mH, LAMINATED STEEL CORE, +5%, 1.4mm(PEW-H 180°), DCR0, +5%, CORE SIZE: 11X11X58MM
- L2 0.4mH, LAMINATED STEEL CORE, 5%, 0.7mm, DCR 5%, CORE SIZE:
- L3 0.32mH, FERRITE CORE, +5%, 0.5mm, DCR +5%, CORE SIZE: Ø10X24.5MM
- C1 15µF 250V, METALIZED POLYESTER FILM, DF<1%, AXIAL, +5%, 24.5X48MM
- C2 12µF 250V, METALIZED POLYESTER FILM, DF<1%, AXIAL, +5%, 21.5X48MM
- C3 3.3µF, 250V METALIZED POLYESTER FILM, DF<1%, AXIAL, +5%, 13X26MM
- C4 3.9µF, 100V, N.P. ELECTROLYTIC, 4%<DF, RADIAL, +5%, 105°C, 10X20MM
- R1 & R2 16.0 OHMS, 30W, +5%, WIREWOUND CERAMIC, SQZ, 15X13X63MM
- R3 20 OHMS, 20W, +5%, WIREWOUND CERAMIC, SQP, 12.5X12.5X63MM
- R4 0.5 OHMS, 10W, +5%, WIREWOUND CERAMIC, SQP, 10X10X43MM
- R5 0.5 OHMS, 10W, +5%, WIREWOUND CERAMIC, SQP, 10X10X48MM
- R6 3.3 OHMS, 10W, +5%, WIREWOUND CERAMIC, SQP, 10X10X48MM

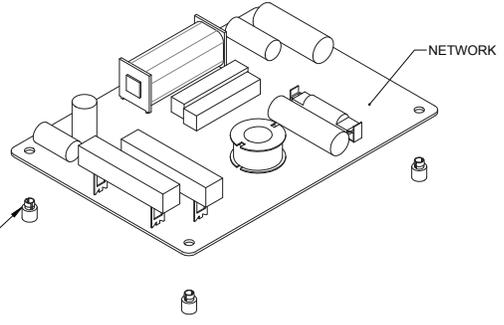
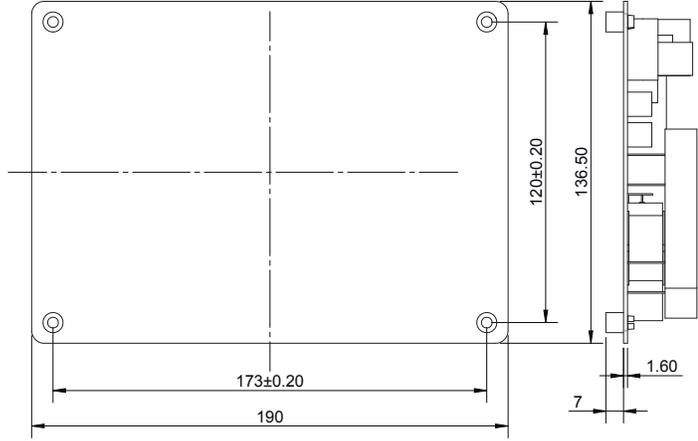
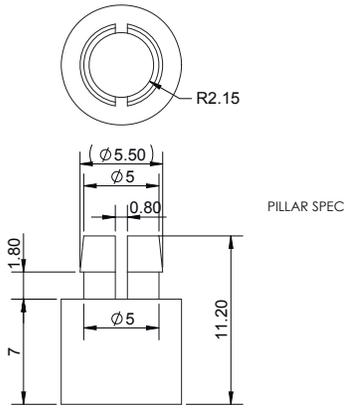
5. NEED TO APPLY HEAT SHRINKAGE TUBE TO ALL SPADE PLUGS FOR PREVENTING SHORT CIRCUIT.
4. INPUT END 5.0±1.0MM STRIPPED AND TINNED, THEN SOLDER ONTO NEUTRIK CONNECTOR.
3. ALL COMPONENTS NEED TO BE FIXED WITH ADHESIVE.
2. APPLY RTV SILICONE BETWEEN B1 BOTH ENDS ONLY.
1. ALL COMPONENTS TO BE TESTED @ 1 KHz.

WIRES 16AWG, UL-1015
 PCB MATERIAL: CEM-1
 COPPER: 1oz
 THICK: 1.6mm
 PCB SIZE: 190X136.50MM

PROPRIETARY AND CONFIDENTIAL PROPERTY OF HARMAN. DO NOT DISCLOSE, REPRODUCE, OR FUSE/SIL WITHOUT WRITTEN HARMAN APPROVAL.	THIRD ANGLE PROJECTION			HARMAN <small>6877 Tower B Kinglake Software Park, No.2 12th Road South High-tech Industrial Park Shenzhen 518057, CN</small>	
	TITLE NETWORK ASY, VPX725				
ROHS RESTRICTION OF HAZARDOUS SUBSTANCES ALL MATERIALS USED IN THIS PART MUST BE ROHS COMPLIANT. SUPPLIER SHALL PROVIDE A CERTIFICATE OF ROHS COMPLIANCE WITH THE FIRST ARTICLE.	DRAWN BY PZ DESIGNED BY ? ENGINEER ?	DATE 03/15/2017 DATE NO.	NO. 5094444-00 REV A.2	SIZE B SCALE 2:1 DO NOT SCALE DRAWING	SHEET 2 OF 3

0 1 2 3 4 5 6 7 8 9

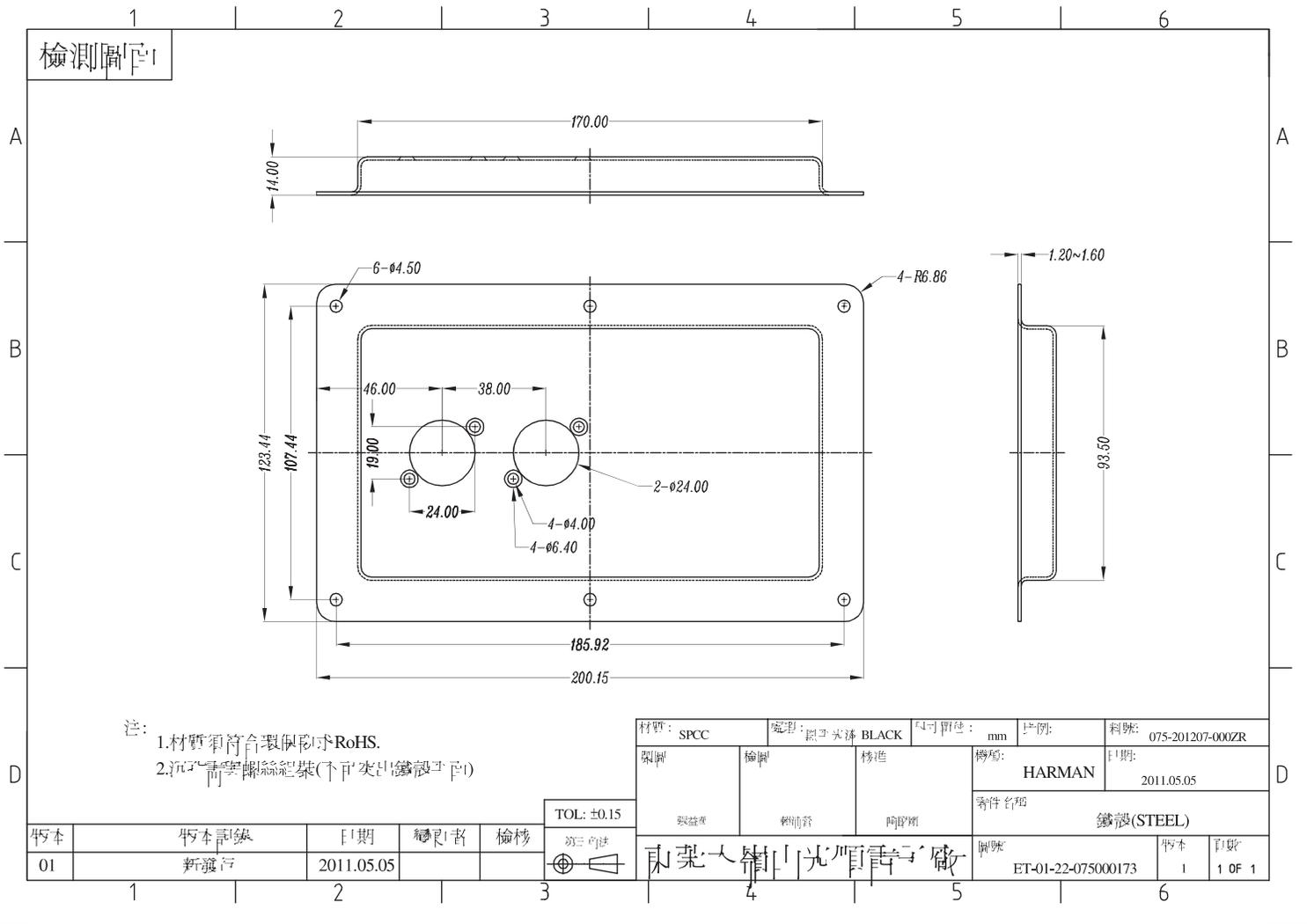
REVISION HISTORY					ZONE	BY
DATE	REV.	PREVIOUS PART NO.	DESCRIPTION			



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	TITLE NETWORK ASY,VPX715/725	DRAWN BY _____ DATE _____ DESIGNED BY _____ DATE _____ ENGINEER _____	REV A

0 1 2 3 4 5 6 7 8 9

檢測圖



- 注：
 1. 材質符合環保要求RoHS.
 2. 沉孔高度與螺絲架(下)突出鐵殼平齊

材質: SPCC	處理: 黑漆 BLACK	尺寸單位: mm	比例:	料號: 075-201207-000ZR
製圖	檢圖	標進	標重: HARMAN	日期: 2011.05.05
張益強	賴明晉	陶啟輝	零件名稱: 鐵殼(STEEL)	
圖號: ET-01-22-075000173			版本: 1	頁數: 1 OF 1

TOL: ±0.15

東莞大華五金有限公司

版本	版本記錄	日期	變更者	檢核
01	新設計	2011.05.05		

Multi-Level BOM Report

Target Part: [VPX725, S/M, VPX725, B.3 \(Design\)](#)

Number	Version	Name	Line Number	Find Number	Quantity	State	Reference Designator
0	 VPX725	B.3 (Design)	S/M, VPX725			Released	
1	..... 49790P	C.9 (Design)	MICROFOAM 1/32X18X20		8 each	Released	
1	..... 65012	D.7 (Design)	TAPE,PKG,3"X3000LINF		2 Meter	Released	
1	..... 72471	D.6 (Design)	RIBBON,XFR,THRM,4.5"x1181		4 Inch	Released	
1	..... 365011-001D	D.1 (Design)	MFD ITEM, 2408H-1 (CHINA)		1 each	In Design	
2	..... 63627	C.9 (Design)	ADH,C.A.,SICO-MET	340	033	0.06 gram	Released
2	..... 69437	C.7 (Design)	ADHES,LOCTITE 242	290	029	0.4 Milliliter	Released
2	..... 74822	A.10 (Design)	LBL, DTC	450		1 each	Released
3	..... 72471	D.6 (Design)	RIBBON,XFR,THRM,4.5"x1181		0.2 Meter	Released	
3	..... 75225	A.7 (Design)	LABEL, BLANK		1 each	Released	
2	..... 5006634	A.7 (Design)	GLUE, LOCTITE 326	400		0.38 gram	Released
2	..... 5012084	A.6 (Design)	SERIAL NUMBER LABEL BLANK	430		1 each	Released
2	..... 5014138	A.7 (Design)	2408h-1 LABEL, CHINA	440		1 each	Released
2	..... 5024020	A.6 (Design)	SC97, 1MM SOLDER WIRE C512 CORE (CHINA)	410		1.2 gram	Released
2	..... 338430-001	B.3 (Design)	TOP PLATE, 2407H	70	007	1 each	Released
2	..... 339133-001	D.5 (Design)	MAGNET, 2.75"OD, 1.6"ID, 0.25THK	90	009	1 each	Released
2	..... 352859-001	C.8 (Design)	ADH, MOYEN 3087	210	020	0.2 Milliliter	Released
2	..... 353219-001	D.7 (Design)	ACTIVATOR, LOCTITE 7091, VARIOUS	390		0.085 Milliliter	Released
2	..... 353928-001	G.6 (Design)	VOICE COIL, 2408	60	006	1 each	Released
2	..... 353929-999D	A.5 (Design)	FINISHED, DIAPHRAGM, 2408(CHINA)	420		1 each	Released

Multi-Level BOM Report

Target Part: [VPX725, S/M, VPX725, B.3 \(Design\)](#)

Number	Version	Name	Line Number	Find Number	Quantity	State	Reference Designator
3  5041338	A.5 (Design)	3m twist and fill general purpose cleaner			1.135 Milliliter	Released	
3  353929-001	B.3 (Design)	DIAPHRAGM, 2408			1 each	Released	
4  361864-001	A.7 (Design)	DUPONT TEIJIN FILM TOENEX			27 Square inch	Released	
3  363073-001	C.8 (Design)	GLASS BEADS, COMCO INC., P/N PD1033-3			0.096 ounce	Released	
2  353931-001	A.6 (Design)	OUTER RING, DIAPHRAGM, 2408	250	025	1 each	Released	
2  354063-001	B.3 (Design)	BACKPLATE/POLE PIECE, 2408H	80	008	1 each	Released	
2  354266-001	C.5 (Design)	PSA, INNER RING, 2408H	350	034	2 each	Released	
2  354312-001	C.7 (Design)	PSA, OUTER	380	038	1 each	Released	
2  361513-001	C.7 (Design)	KAPTON FILM-TAPE, 5mm WIDE, 0.025 MM THK	180	017	0.2 Lineal Foot	Released	
2  361514-001	C.6 (Design)	TERMINAL BOARD, .250, 2408H	120	012	1 each	Released	
2  361514-002	C.6 (Design)	TERMINAL BOARD, .187, 2408H	130	013	1 each	Released	
2  361573-001	B.11 (Design)	PSA STRIP, 2408H	220	021	4 each	Released	
2  361574-001	A.4 (Design)	ADHESIVE, LOCKTITE E20-HP EPOXY	240	023	0.001 Milliliter	Released	
2  363122-001	C.8 (Design)	SILICONE SEALANT	300	030	0.28 gram	Released	
2  365009-001	C.6 (Design)	ADAPTER, 2408-1	10	001	1 each	Released	
2  365095-001	C.8 (Design)	RING, INNER, 2408H	260	026	1 each	Released	
2  365108-001	C.9 (Design)	RUBBER RING, 2408H-1	370	036	1 each	Released	
2  365173-001	D.3 (Design)	PHASING PLUG SQUARE, 2408-1	30	003	1 each	Released	
2  370-00000-00	E.3 (Design)	SCREEN, 7/8 DIA, EXIT	160	016	1 each	Released	
2  370-00000-00	C.6	SCR,8-32 X 7/16,PAN,PH,CLR	150	015	4 each	Released	

Multi-Level BOM Report

Target Part: [VPX725, S/M, VPX725, B.3 \(Design\)](#)

Number	Version	Name	Line Number	Find Number	Quantity	State	Reference Designator
803-41000-07	(Design)	ZINC,LCS					
2 CONSUMABLES	-7 (Design)	ADHESIVES/PAINTS/CHEMICALS/ LABELS/ETCALL	0		0.505 Piece	Released	
1 5013165	A.6 (Design)	STAPLE 8014 12.8mmX14mm			24 each	Released	
1 5019069	B.6 (Design)	BARCODE BLANK LABEL CHINA 4SN			2 each	Released	
1 5041776	C.9 (Design)	AUD,LS,ASY,KP4015 WOOF			2 each	Released	
2 5041382	A.8 (Design)	XDCRMECH, DUST CAP, MQ85 WOOF			1 each	Released	
2 5041684	A.7 (Design)	XDCRMECH,CONE ASY,KP4015 WOOF			1 each	Released	
2 5041729	B.5 (Design)	XDCRMECH, VOICE COIL, MQ82			1 each	Released	
2 5041732	A.8 (Design)	XDCRMECH,BACK PLATE,MQ82 WF			1 each	Released	
2 5041734	A.8 (Design)	XDCRMECH, MAGNET, MQ82 WF			1 each	Released	
2 5041739	A.9 (Design)	XDCRMECH, AL FRAM, MQ85 WF			1 each	Released	
2 5041741	C.4 (Design)	XDCRMECH, SPIDER, MQ85 WF			1 each	Released	
2 5041744	A.10 (Design)	XDCRMECH, EVA FRONT GKT, MQ85 WF			4 each	Released	
2 5041746	A.9 (Design)	XDCRMECH,EVA BACK GKT, MQ85 WF			4 each	Released	
2 5041749	C.5 (Design)	XDCRMECH, POLE PIECE, MQ85 WF			1 each	Released	
2 5041750	B.8 (Design)	XDCRMECH, RING, MQ85 WF			2 each	Released	
2 5041773	A.6 (Design)	XDCRMECH,TERMINAL POLE, MQ8 WF			1 PR Pair	Released	
2 5041782	B.6 (Design)	LBL,PRNT,KP4015 WOOF			1 each	Released	
3 5042438	B.7 (Design)	ART,LABEL,KP4015 WOOF			1 each	Released	
2 5045638	A.9 (Design)	XDCRMECH, TOP PLATE, KP4015 WOOF			1 each	Released	
1 5048167	A.8 (Design)	POLY FIBER PAD, DANDONG			29 Square Foot SF	Released	

Multi-Level BOM Report

Target Part: [VPX725, S/M, VPX725, B.3 \(Design\)](#)

Number	Version	Name	Line Number	Find Number	Quantity	State	Reference Designator
1	 5081561	B.1 (Design)			1 each	Released	
2	 61861	C.10 (Design)			32 each	Released	
2	 70206	C.8 (Design)			0.026 gallon, US	Released	
2	 71261	C.12 (Design)			0.19 gallon, US	Released	
2	 5013163	A.6 (Design)			32 each	Released	
2	 5058298	A.8 (Design)			0.952 gallon, US	Released	
2	 5058299	B.7 (Design)			0.084 gallon, US	Released	
2	 362721-001	A.5 (Design)			0.083 gallon, US	Released	
2	 364102-001	C.6 (Design)			4 Meter	Released	
2	 445955-001	A.15 (Design)			6 each	Released	
2	 5089847-00	A.5 (Design)			1 each	Released	
2	 5089848-00	A.5 (Design)			1 each	Released	
2	 5089849-00	A.5 (Design)			1 each	Released	
2	 5089850-00	A.5 (Design)			1 each	Released	
2	 5089851-00	A.5 (Design)			1 each	Released	
2	 5089852-00	A.5 (Design)			1 each	Released	
2	 5089853-00	A.5 (Design)			2 each	Released	
2	 5089855-00	A.5 (Design)			2 each	Released	
2	 5089857-00	A.5 (Design)			2 each	Released	
2	 5089858-00	A.5 (Design)			1 each	Released	

Multi-Level BOM Report

Target Part: [VPX725, S/M, VPX725, B.3 \(Design\)](#)

Number	Version	Name	Line Number	Find Number	Quantity	State	Reference Designator
2  5090659-00	A.5 (Design)	ENCL,UPPER PORT PNL,MRX725			2 each	Released	
2  5090660-00	A.5 (Design)	ENCL,LOWER PORT _L,MRX725			1 each	Released	
2  5090661-00	A.5 (Design)	ENCL,LOWER PORT _R,MRX725			1 each	Released	
2  882-41410-15	B.4 (Design)	HDWR,FASTNR,SCR,ST4×15 PH,PAN, BLK ZINC			24 each	Released	
2  CONSUMABLES	-.7 (Design)	ADHESIVES/PAINTS/CHEMICALS/ LABELS/ETCALL			34.438 Piece	Released	
1  5081568	A.7 (Design)	SPKSYS, GRILLE, ASY, MRX725			1 each	Released	
2  5081551	A.4 (Design)	HDW, BDGE, PROFESSIONAL,MRX700			1 each	Released	
2  5081584	A.4 (Design)	SPKSYS, GRL, MRX725			1 each	Released	
2  445921-001	A.11 (Design)	HDWR,SPRING,KP600			1 each	Released	
2  445922-001	A.10 (Design)	HDWR,FSTNR,LOCK-WASHER,KP600			1 each	Released	
1  353445-001	B.12 (Design)	FOOT, SRX			4 each	Released	
1  354267-001	B.7 (Design)	HORN, MRX512, VARIOUS			1 each	Released	
1  362049-004	D.7 (Design)	GASKET, MRX528S, 525			1 each	Released	
1  363125-001	C.7 (Design)	GASKET, HANDLE MRX			2 each	Released	
1  5094442-00	A.5 (Design)	SPEC SHEET,VPX725			1 each	Released	
1  5094443-00	A.6 (Design)	INPUT, TERMINAL CUP, ASY,VPX725			1 each	Released	
2  5081555	A.4 (Design)	TERMINAL CUP, MRX715			1 each	Released	
2  5094444-00	A.4 (Design)	NETWORK, VPX725			1 each	Released	
2  5094445-00	A.6 (Design)	LAB, PRODUCT, VPX725			1 each	Released	
1  5094446-00	A.5 (Design)	LAB, POP STICKER, VPX725			1 each	Released	

Multi-Level BOM Report

Target Part: [VPX725, S/M, VPX725, B.3 \(Design\)](#)

Number	Version	Name	Line Number	Find Number	Quantity	State	Reference Designator
1	 5094447-00	A.5 (Design) SHPMAT, CARTON ,VPX725			1 each	Released	
1	 5094450-00	A.7 (Design) SPKSYS, HANDLE, ASY, VPX700			2 each	Released	
2	 362328-001	B.8 (Design) HANDLE ASSY, MRX			1 each	Released	
2	 5095121-00	A.6 (Design) LAB, HANDLE, PMMA, VPX700			1 each	Released	
1	 5096420-00	A.6 (Design) SHPMAT,FRNT FLR,VPX725			1 each	Released	
1	 5096421-00	A.6 (Design) SHPMAT,OUTR FLR,VPX725			2 each	Released	
1	 5096422-00	A.6 (Design) SHPMAT,INNER FLR,VPX725			2 each	Released	
1	 804-01110-16	-.9 (Design) SCR,10-32 X 1,FIL,PH,BLK			16 each	Released	
1	 804-11110-16	D.6 (Design) SCR,10-32 X 1,FLT,PH,BLK ZINC,LCS			8 each	Released	
1	 804-41110-12	D.8 (Design) SCR,10-32 X 3/4,PAN,PH,BLK ZINC,LCS			8 each	Released	
1	 818-13710-30	A.6 (Design) HDWR,FASTNR,SCR,M10x30 HED, FLAT, EDB			12 each	Released	
1	 882-41110-10	C.9 (Design) SCR, 6 X 5/8,PAN,PH,PB,BLK ZINC,LCS			6 each	Released	
1	 882-41410-30	A.4 (Design) SCR,PA4x30,PAN,PH,BLK ZINC			4 each	Released	
1	 882-51110-12	C.10 (Design) SCR, 6 X 3/4,OV,PH,PTCL,BLK ZC,LCS			26 each	Released	
1	 884-11110-12	C.6 (Design) SCR,10 X 3/4,FLT,PH,PB,BLK ZINC,LCS			8 each	Released	
1	 884-41110-12	C.6 (Design) SCR,10 X 3/4,PAN,PH,PB,BLK ZINC,LCS			4 each	Released	
1	 905901-012	NA.6 (Design) SCR,MOD,TRUSS, PHIL,#8x.75,BLK			1 each	Released	
1	 CONSUMABLES	-.7 (Design) ADHESIVES/PAINTS/CHEMICALS/ LABELS/ETCALL			0.503 Piece	Released	