

# HONBDA Series High Power Over-the-Air Public Safety Centric DAS

## Product Features

- Specifically designed for LMR and Public Safety Applications
- Redundancy features
- Field expandable
- No need of “Front End BDA” or “POI”, reduced infrastructure cost
- Channelized
- Programmable uplink squelch (per channel and time slot) for reduced UL noise contribution
- Software programmable channel selective or band selective operation, suitable for highly congested RF environments
- Centralized operation, single point of access
- AGC per channel and time slot
- Supports Over-the-Air (OTA) operation
- NFPA Compliant
- Preserves the far end communications and protects BTS Rx sensitivity



## Applications

- For P25 Ph1, P25 Ph2, DMR, TETRA, TETRAPOL, C2000, NXDN and Conventional Systems
- Indoor: tunnels, buildings, subways, airports, among others
- Outdoor: stadiums, canyons, dense urban areas, remote rural towns

Specification	Value
Fiber-Optic	Single mode
WDM	Yes
Optical Wavelengths	1310 / 1550 nM
Operational Bands	136 - 174 MHz & 450 - 512 MHz
Number of Channel Filters	64 channels + 4 Bandwidth Adjustable per band
Available Channel Filter BW	100KHz, 75KHz, 62.5KHz, 50KHz, 37.5KHz, 25KHz & 12.5KHz
Group Delay	Channel Selective 100KHz, 12.6µS Channel Selective 75KHz, 14.9µS Channel Selective 62.5KHz, 16.8µS Channel Selective 50KHz, 19.6µS Channel Selective 37.5KHz, 24.1µS Channel Selective 25KHz, 33.4µS Channel Selective 12.5KHz, 62.1µS or Band selective: 3.5 to 6.5µS, depending on BWA
Supported Fiber Loss	20dB <sub>o</sub> max
Optical connectors	LC /APC compatible with LC/UPC
Optical return loss	>45dB
RF Input/Output Impedance	50
RF connectors	N(f)
Overall gain (Master + Remote)*	85dB regardless fiber length
Noise Figure	<9dB
DL Manual Attenuator	20dB in 1dB steps
Maximum UL Output Power *	+24 dBm per band
UL IM and Spurious Generation	< -13dBm
UL Manual Attenuator	20dB in 1dB steps
Max Operational DL Input Power	-35dBm
Number of Optical Ports	8
Power Supply	110VAC 60Hz or +24VDC (see table)

Specification	Value
Power Consumption	80W
Housing	NEMA4
Environmental	EN 300 019 4.1
Temperature range	-22° to +131° F • -30° to +55° C
Humidity	<95% non-condensing
Dimensions	Cabinet Type "C": 27.2 x 20 x 9 in (690.88 x 508.0 x 228.6mm) Cabinet Type "E": 30x 24 x 12 in (762.0 x 609.6 x 304.8mm)
MTBF	<50.000 hours
Composite Output Power, DL *	VHF: 30 dBm, UHF: 37 dBm
DL IMD and Spurious Generation	< -13 dBm
Number of Optical Ports	1 for MU redundancy FO ports available as optional
UL Maximum Input Power	0dBm
UL Noise Reduction	UL squelch per channel, programmable
Manual Attenuator	20dB in 1 dB steps +/- 0.5 dB
Power Supply	110VAC 60Hz & +24 (see Table)
Power Consumption	130W
Housing	NEMA4
Environmental	EN 300 019 4.1
Temperature Range	-22° to +131° F • -30° to +55° C
Humidity	< 95% non-condensing
Dimension and Weight	30x 24 x 16 in
MTBF	> 50.000 hours
Alarms Report	Via Master Unit Local: USB (POWER STATUS, MU STATUS, RM STATUS) Remote: SNMP (Ethernet)
Master Unit Configuration	Local: USB or Ethernet (Web browser) Remote: Via SNMP or Web browser
Standards	ITU T G 652 EN60825-1
FCC	FCC, CFR 47, Part 15, Subpart B, Class A digital devices
FCC ID Master	P3TDH14-4A
FCC ID Remote	P3TDH14-6A

\* Value valid for non duplexed units. This value can change depending on the filtering insertion loss of the duplexer.

The table below lists the labels assigned the Type, Power Supply, Frequency Band, VHF Filter BW, UHF Filter and Downlink RF Power. Each column includes the information assigned to each suffix label in the model name.

For example, in the model name, **HONBDA-R1A-VU22H**, the suffix label **R1A-VU22H** indicates the following.

- R1 = Type: Remote 1 FO
- A = Power Supply: AC
- VU = Frequency Band: is 136-174 + 450-470
- 2 = VHF Filter BW is 2.0 MHz
- 2 = UHF Filter is 2.0 MHz
- H = Downlink RF Power H: VHF =+30 dBm; UHF =+37 dBm

HONBDA	-[TYPE]	[Power Supply]	[Frequency Band]	[VHF Filter BW] If apply	[UHF Filter] If apply	[Downlink RF Power]
	<b>M:</b> Master PSC	<b>A:</b> AC	<b>V:</b> 136-174	<b>N:</b> Non Duplexed	<b>N:</b> Non Duplexed	<b>L:</b> VHF=+24dBm; UHF=+30dBm
	<b>R1:</b> Remote 1 FO	<b>D:</b> DC	<b>U:</b> 450-470	<b>2:</b> 2.0 MHz	<b>0:</b> 0.7MHz	<b>H:</b> VHF=+30dBm; UHF=+37dBm
	<b>R2:</b> Remote 2 FO		<b>T:</b> 470-512	<b>3:</b> 3.5 MHz B	<b>1:</b> 1.5MHz	
			<b>UT:</b> 450-512		<b>2:</b> 2.0MHz	
			<b>VU:</b> 136-174+450-470		<b>4:</b> 4.0MHz	
			<b>VT:</b> 136-174+470-512		<b>5:</b> 5.0MHz	
			<b>VUT:</b> 136-174+450-512		<b>00:</b> 0.7 + 0.7 MHz	
					<b>01:</b> 0.7 + 1.5 MHz	
					<b>02:</b> 0.7 + 2.0 MHz	
					<b>04:</b> 0.7 + 4.0 MHz	
					<b>11:</b> 1.5 + 1.5 MHz	
					<b>12:</b> 1.5 + 2.0 MHz	
					<b>14:</b> 1.5 + 4.0 MHz	
					<b>22:</b> 2.0 + 2.0 MHz	
					<b>24:</b> 2.0 + 4.0 MHz	
					<b>000:</b> 0.7 + 0.7 + 0.7 MHz	
					<b>001:</b> 0.7 + 0.7 + 1.5 MHz	
					<b>011:</b> 0.7 + 1.5+ 1.5 MHz	
					<b>012:</b> 0.7 + 1.5+ 2.0 MHz	
					<b>111:</b> 1.5 + 1.5 + 1.5 MHz	
					<b>002:</b> 0.7 + 0.7 + 2.0 MHz	
					<b>112:</b> 1.5 + 1.5 + 2.0 MHz	
					<b>004:</b> 0.7 + 0.7 + 4.0 MHz	
					<b>MDA:</b> Miami Dade	
					<b>RWC:</b> Redwood City	
					<b>WMO:</b> WMATA OTA	

Refer to the Ordering Information Section for the model part numbers.

**Table 1 - SKU Model Name Descriptions**

WARNING: This is NOT a CONSUMER device. It is designed for installation by FCC LICENSEES and QUALIFIED INSTALLERS. You MUST have an FCC LICENCE or express consent of an FCC.

Licensee to operate this device. Unauthorized use may result in significant forfeiture penalties, including penalties in excess of \$100,000 for each continuing violation.

## Ordering Information

HONBDA-R1A-T0H: UHF T PSC REM 1FO, 0.7MHz, AC, HP  
HONBDA-R1A-T1H: UHF T PSC REM 1FO, 1.5MHz, AC, HP  
HONBDA-R1A-U2H: UHF U PSC REM 1FO, 2MHz, AC, HP  
HONBDA-R1A-UTNH: UHF PSC REM 1FO, ND, AC, HP  
HONBDA-R1A-V2H: VHF PSC REM 1FO, 2MHz, AC, HP  
HONBDA-R1A-V3H: VHF PSC REM 1FO, 3MHz, AC, HP  
HONBDA-R1A-VNH: VHF PSC REM 1FO, ND, AC, HP  
HONBDA-R1A-T00H: UHF T PSC REM 1FO, 0.7-0.7MHz, AC, HP  
HONBDA-R1A-T2H: UHF T PSC REM 1FO, 2MHz, AC, HP  
HONBDA-R1A-TRWCH: UHF T PSC REM 1FO, RWC, AC, HP  
HONBDA-R1A-TWMOH: UHF T PSC REM 1FO, WMO, AC, HP  
HONBDA-R1A-U04H: UHF U PSC REM 1FO, 0.7-4MHz, AC, HP  
HONBDA-R1A-U22H: UHF U PSC REM 1FO, 2-2MHz, AC, HP  
HONBDA-R1A-U4H: UHF U PSC REM 1FO, 4MHz, AC, HP  
HONBDA-R1A-UMDAH: UHF U PSC REM 1FO, MDAMHz, AC, HP  
HONBDA-R1A-UT02H: UHF PSC REM 1FO, 0.7-2MHz, AC, HP  
HONBDA-R1A-UT002H: UHF PSC REM 1FO, 0.7-0.7-2MHz, AC, HP  
HONBDA-R1A-UT12H: UHF PSC REM 1FO, 1.5-2MHz, AC, HP  
HONBDA-R1A-UT22H: UHF PSC REM 1FO, 2-2MHz, AC, HP  
HONBDA-R1A-VT20H: VHF&UHF T PSC REM 1FO, 2&0.7MHz, AC, HP  
HONBDA-R1A-VT200H: VHF&UHF T PSC REM 1FO, 2&0.7-0.7MHz, AC, HP  
HONBDA-R1A-VT21H: VHF&UHF T PSC REM 1FO, 2&1.5MHz, AC, HP  
HONBDA-R1A-VT211H: VHF&UHF T PSC REM 1FO, 2&1.5-1.5MHz, AC, HP  
HONBDA-R1A-VT22H: VHF&UHF T PSC REM 1FO, 2&2MHz, AC, HP  
HONBDA-R1A-VT2RWCH: VHF&UHF T PSC REM 1FO, 2&RWCmHz, AC, HP  
HONBDA-R1A-VT30H: VHF&UHF T PSC REM 1FO, 3&0.7MHz, AC, HP  
HONBDA-R1A-VT300H: VHF&UHF T PSC REM 1FO, 3&0.7-0.7MHz, AC, HP  
HONBDA-R1A-VT31H: VHF&UHF T PSC REM 1FO, 3&1.5MHz, AC, HP  
HONBDA-R1A-VT311H: VHF&UHF T PSC REM 1FO, 3&1.5-1.5MHz, AC, HP  
HONBDA-R1A-VT32H: VHF&UHF T PSC REM 1FO, 3&2MHz, AC, HP  
HONBDA-R1A-VT3RWCH: VHF&UHF T PSC REM 1FO, 3&RWCmHz, AC, HP  
HONBDA-R1A-VTN0H: VHF&UHF T PSC REM 1FO, ND&0.7MHz, AC, HP  
HONBDA-R1A-VTN00H: VHF&UHF T PSC REM 1FO, ND&07-07MHz, AC, HP  
HONBDA-R1A-VTN1H: VHF&UHF T PSC REM 1FO, ND&1.5MHz, AC, HP  
HONBDA-R1A-VTN11H: VHF&UHF T PSC REM 1FO, ND&15-15MHz, AC, HP  
HONBDA-R1A-VTN2H: VHF&UHF T PSC REM 1FO, ND&2MHz, AC, HP  
HONBDA-R1A-VTNRWCH: VHF&UHF T PSC REM 1FO, ND&RWCmHz, AC, HP  
HONBDA-R1A-VU204H: VHF&UHF U PSC REM 1FO, 2&0.7-4MHz, AC, HP  
HONBDA-R1A-VU22H: VHF&UHF U PSC REM 1FO, 2&2MHz, AC, HP  
HONBDA-R1A-VU222H: VHF&UHF U PSC REM 1FO, 2&2-2MHz, AC, HP  
HONBDA-R1A-VU24H: VHF&UHF U PSC REM 1FO, 2&4MHz, AC, HP  
HONBDA-R1A-VU25H: VHF&UHF U PSC REM 1FO, 2&5MHz, AC, HP  
HONBDA-R1A-VU2MDAH: VHF&UHF U PSC REM 1FO, 2&MDA, AC, HP  
HONBDA-R1A-VUT2NH: VHF&UHF PSC REM 1FO, 2&ND, AC, HP  
HONBDA-R1A-VU304H: VHF&UHF U PSC REM 1FO, 3&0.7-4MHz, AC, HP  
HONBDA-R1A-VU32H: VHF&UHF U PSC REM 1FO, 3&2MHz, AC, HP  
HONBDA-R1A-VU322H: VHF&UHF U PSC REM 1FO, 3&2-2MHz, AC, HP  
HONBDA-R1A-VU34H: VHF&UHF U PSC REM 1FO, 3&4MHz, AC, HP  
HONBDA-R1A-VU35H: VHF&UHF U PSC REM 1FO, 3&5MHz, AC, HP  
HONBDA-R1A-VU3MDAH: VHF&UHF U PSC REM 1FO, 3&MDA, AC, HP  
HONBDA-R1A-VUT3NH: VHF&UHF PSC REM 1FO, 3&ND, AC, HP  
HONBDA-R1A-VUN04H: VHF&UHF U PSC REM 1FO, ND&0.7-4MHz, AC, HP  
HONBDA-R1A-VUN2H: VHF&UHF U PSC REM 1FO, ND&2MHz, AC, HP  
HONBDA-R1A-VUN22H: VHF&UHF U PSC REM 1FO, ND&2-2MHz, AC, HP

HONBDA-R1A-VUN4H: VHF&UHF U PSC REM 1FO, ND&4MHz, AC, HP  
HONBDA-R1A-VUN5H: VHF&UHF U PSC REM 1FO, ND&5MHz, AC, HP  
HONBDA-R1A-VUNMDAH: VHF&UHF U PSC REM 1FO, ND&MDA, AC, HP  
HONBDA-R1A-VUTNNH: VHF&UHF PSC REM 1FO, ND&ND, AC, HP  
HONBDA-ED-VUT2NH: VHF&UHF ENT MASTER, 2&ND, DC, HP  
HONBDA-ED-VUT3NH: VHF&UHF ENT MASTER, 3&ND, DC, HP  
HONBDA-ED-VU34H: VHF&UHF U ENT MASTER, 3&4MHz, DC, HP  
HONBDA-R1A-TESGH: VHF PSC REM 1FO, ESG, AC, HP  
HONBDA-R1A-UT012H: UHF PSC REM 1FO, 0.7-1.5-2MHz, AC, HP  
HONBDA-R1D-VUT2NH: VHF&UHF PSC REM 1FO, 2&ND, DC, HP  
HONBDA-R1D-VUT3NH: VHF&UHF PSC REM 1FO, 3&ND, DC, HP  
HONBDA-R1A-VUTCY2H: VHF&UHF U PSC REM 1FO, T CY&2MHz, AC, HP  
HONBDA-R2A-VUT2NH: VHF&UHF PSC REM 2FO, 2&ND, AC, HP  
HONBDA-R2D-VUT2NH: VHF&UHF PSC REM 2FO, 2&ND, DC, HP  
HONBDA-R2A-VUT3NH: VHF&UHF PSC REM 2FO, 3&ND, AC, HP  
HONBDA-R2D-VUT3NH: VHF&UHF PSC REM 2FO, 3&ND, DC, HP  
HONBDA-R2D-VU34H: VHF&UHF U PSC REM 2FO, 3&4MHz, DC, HP  
HONBDA-R2A-T00H: UHF T PSC REM 2FO, 0.7-0.7MHz, AC, HP  
HONBDA-R2A-T0H: UHF T PSC REM 2FO, 0.7MHz, AC, HP  
HONBDA-R2A-T1H: UHF T PSC REM 2FO, 1.5MHz, AC, HP  
HONBDA-R2A-T2H: UHF T PSC REM 2FO, 2MHz, AC, HP  
HONBDA-R2A-TESGH: UHF T PSC REM 2FO, ESG, AC, HP  
HONBDA-R2A-TRWCH: UHF T PSC REM 2FO, RWC, AC, HP  
HONBDA-R2A-TWMOH: UHF T PSC REM 2FO, WMO, AC, HP  
HONBDA-R2A-U04H: UHF U PSC REM 2FO, 0.7-4MHz, AC, HP  
HONBDA-R2A-U22H: UHF U PSC REM 2FO, 2-2MHz, AC, HP  
HONBDA-R2A-U2H: UHF U PSC REM 2FO, 2MHz, AC, HP  
HONBDA-R2A-U4H: UHF U PSC REM 2FO, 4MHz, AC, HP  
HONBDA-R2A-UMDAH: UHF U PSC REM 2FO, MDA, AC, HP  
HONBDA-R2A-UT002H: UHF PSC REM 2FO, 0.7-0.7-2MHz, AC, HP  
HONBDA-UT012H: UHF PSC REM 2FO, 0.7-1.5-2MHz, AC, HP  
HONBDA-R2A-UT02H: UHF PSC REM 2FO, 0.7-2MHz, AC, HP  
HONBDA-R2A-UT12H: UHF PSC REM 2FO, 1.5-2MHz, AC, HP  
HONBDA-R2A-UT22H: UHF PSC REM 2FO, 2-2MHz, AC, HP  
HONBDA-R2A-UTNH: UHF PSC REM 2FO, ND, AC, HP  
HONBDA-R2A-V2H: VHF PSC REM 2FO, 2MHz, AC, HP  
HONBDA-R2A-V2S: VHF PSC REM 2FO, 2MHz, AC, 33DBM  
HONBDA-R2A-V3H: VHF PSC REM 2FO, 3MHz, AC, HP  
HONBDA-R2A-VNH: VHF PSC REM 2FO, ND, AC, HP  
HONBDA-R2A-VT200H: VHF&UHF T PSC REM 2FO, 2&0.7-0.7MHz, AC, HP  
HONBDA-R2A-VT20H: VHF&UHF T PSC REM 2FO, 2&0.7MHz, AC, HP  
HONBDA-R2A-VT211H: VHF&UHF T PSC REM 2FO, 2&1.5-1.5MHz, ACDC  
HONBDA-R2A-VT211H: VHF&UHF T PSC REM 2FO, 2&1.5-1.5MHz, AC, HP  
HONBDA-R2A-VT21H: VHF&UHF T PSC REM 2FO, 2&1.5MHz, AC, HP  
HONBDA-R2A-VT22H: VHF&UHF T PSC REM 2FO, 2&2MHz, AC, HP  
HONBDA-R2A-VT2RWCH: VHF&UHF T PSC REM 2FO, 2&RWC, AC, HP  
HONBDA-R2A-VT300H: VHF&UHF T PSC REM 2FO, 3&0.7-0.7MHz, AC, HP  
HONBDA-R2A-VT30H: VHF&UHF T PSC REM 2FO, 3&0.7MHz, AC, HP  
HONBDA-R2A-VT311H: VHF&UHF T PSC REM 2FO, 3&1.5-1.5MHz, AC, HP  
HONBDA-R2A-VT31H: VHF&UHF T PSC REM 2FO, 3&1.5MHz, AC, HP  
HONBDA-R2A-VT32H: VHF&UHF T PSC REM 2FO, 3&2MHz, AC, HP  
HONBDA-R2A-VT3RWCH: VHF&UHF T PSC REM 2FO, 3&RWC, AC, HP  
HONBDA-R2A-VTN00H: VHF&UHF T PSC REM 2FO, ND&07-07MHz, AC, HP  
HONBDA-R2A-VTN0H: VHF&UHF T PSC REM 2FO, ND&0.7MHz, AC, HP

HONBDA-R2A-VTN11H: VHF&UHF T PSC REM 2FO, ND&15-15MHz, AC, HP  
HONBDA-R2A-VTN1H: VHF&UHF T PSC REM 2FO, ND&1.5MHz, AC, HP  
HONBDA-R2A-VTN2H: VHF&UHF T PSC REM 2FO, ND&2MHz, AC, HP  
HONBDA-R2A-VTNRWCH: VHF&UHF T PSC REM 2FO, ND&RWC, AC, HP  
HONBDA-R2A-VU204H: VHF&UHF U PSC REM 2FO, 2&0.7-4MHz, AC, HP  
HONBDA-R2A-VU222H: VHF&UHF U PSC REM 2FO, 2&2-2MHz, AC, HP  
HONBDA-R2A-VU22H: VHF&UHF U PSC REM 2FO, 2&2MHz, AC, HP  
HONBDA-R2A-VU24H: VHF&UHF U PSC REM 2FO, 2&4MHz, AC, HP  
HONBDA-R2A-VU25H: VHF&UHF U PSC REM 2FO, 2&5MHz, AC, HP  
HONBDA-R2A-VU2MDAH: VHF&UHF U PSC REM 2FO, 2&MDA, AC, HP  
HONBDA-R2A-VU304H: VHF&UHF U PSC REM 2FO, 3&0.7-4MHz, AC, HP  
HONBDA-R2A-VU322H: VHF&UHF U PSC REM 2FO, 3&2-2MHz, ACDC  
HONBDA-R2A-VU32H: VHF&UHF U PSC REM 2FO, 3&2MHz, AC, HP  
HONBDA-R2A-VU34H: VHF&UHF U PSC REM 2FO, 3&4MHz, AC, HP  
HONBDA-R2A-VU35H: VHF&UHF U PSC REM 2FO, 3&5MHz, AC, HP  
HONBDA-R2A-VU3MDAH: VHF&UHF U PSC REM 2FO, 3&MDA, AC, HP  
HONBDA-R2A-VUN04H: VHF&UHF U PSC REM 2FO, ND&0.7-4MHz, AC, HP  
HONBDA-R2A-VUN22H: VHF&UHF U PSC REM 2FO, ND&2-2MHz, AC, HP  
HONBDA-R2A-VUN2H: VHF&UHF U PSC REM 2FO, ND&2MHz, AC, HP  
HONBDA-R2A-VUN4H: VHF&UHF U PSC REM 2FO, ND&4MHz, AC, HP  
HONBDA-R2A-VUN5H: VHF&UHF U PSC REM 2FO, ND&5MHz, AC, HP  
HONBDA-R2A-VUNMDAH: VHF&UHF U PSC REM 2FO, ND&MDA, AC, HP  
HONBDA-R2A-VUTNNH: VHF&UHF PSC REM 2FO, ND&ND, AC, HP  
HONBDA-R1D-T0H: UHF T PSC REM 1FO, 0.7MHz, DC, HP  
HONBDA-R1D-T1H: UHF T PSC REM 1FO, 1.5MHz, DC, HP  
HONBDA-R1D-T2H: UHF T PSC REM 1FO, 2MHz, DC, HP  
HONBDA-R1D-TRWCH: UHF T PSC REM 1FO, RWC, DC, HP  
HONBDA-R1D-TWMOH: UHF T PSC REM 1FO, WMO, DC, HP  
HONBDA-R1D-U2H: UHF U PSC REM 1FO, 2MHz, DC, HP  
HONBDA-R1D-U4H: UHF U PSC REM 1FO, 4MHz, DC, HP  
HONBDA-R1D-UMDAH: UHF U PSC REM 1FO, MDA, DC, HP  
HONBDA-R1D-UT02H: UHF PSC REM 1FO, 0.7-2MHz, DC, HP  
HONBDA-R1D-UT12H: UHF PSC REM 1FO, 1.5-2MHz, DC, HP  
HONBDA-R1D-UT22H: UHF PSC REM 1FO, 2-2MHz, DC, HP  
HONBDA-R1D-UTNH: UHF PSC REM 1FO, ND, DC, HP  
HONBDA-R1D-VT200H: VHF&UHF T PSC REM 1FO, 2&0.7-0.7MHz, DC, HP  
HONBDA-R1D-VT20H: VHF&UHF T PSC REM 1FO, 2&0.7MHz, DC, HP  
HONBDA-R1D-VT211H: VHF&UHF T PSC REM 1FO, 2&1.5-1.5MHz, DC, HP  
HONBDA-R1D-VT21H: VHF&UHF T PSC REM 1FO, 2&1.5MHz, DC, HP  
HONBDA-R1D-VT22H: VHF&UHF T PSC REM 1FO, 2&2MHz, DC, HP  
HONBDA-R1D-VT2RWCH: VHF&UHF T PSC REM 1FO, 2&RWC, DC, HP  
HONBDA-R1D-VT300H: VHF&UHF T PSC REM 1FO, 3&0.7-0.7MHz, DC, HP  
HONBDA-R1D-VT30H: VHF&UHF T PSC REM 1FO, 3&0.7MHz, DC, HP  
HONBDA-R1D-VT311H: VHF&UHF T PSC REM 1FO, 3&1.5-1.5MHz, DC, HP  
HONBDA-R1D-VT31H: VHF&UHF T PSC REM 1FO, 3&1.5MHz, DC, HP  
HONBDA-R1D-VT32H: VHF&UHF T PSC REM 1FO, 3&2MHz, DC, HP  
HONBDA-R1D-VT3RWCH: VHF&UHF T PSC REM 1FO, 3&RWC, DC, HP  
HONBDA-R1D-VTN00H: VHF&UHF T PSC REM 1FO, ND&07-07MHz, DC, HP  
HONBDA-R1D-VTN0H: VHF&UHF T PSC REM 1FO, ND&0.7MHz, DC, HP  
HONBDA-R1D-VTN11H: VHF&UHF T PSC REM 1FO, ND&15-15MHz, DC, HP  
HONBDA-R1D-VTN1H: VHF&UHF T PSC REM 1FO, ND&1.5MHz, DC, HP  
HONBDA-R1D-VTN2H: VHF&UHF T PSC REM 1FO, ND&2MHz, DC, HP  
HONBDA-R1D-VTNRWCH: VHF&UHF T PSC REM 1FO, ND&RWC, DC, HP  
HONBDA-R1D-VU204H: VHF&UHF U PSC REM 1FO, 2&0.7-4MHz, DC, HP  
HONBDA-R1D-VU222H: VHF&UHF U PSC REM 1FO, 2&2-2MHz, DC, HP

HONBDA-R1D-VU22H: VHF&UHF U PSC REM 1FO, 2&2MHz ,DC, HP  
HONBDA-R1D-VU24H: VHF&UHF U PSC REM 1FO, 2&4MHz, DC, HP  
HONBDA-R1D-VU25H: VHF&UHF U PSC REM 1FO, 2&5MHz, DC, HP  
HONBDA-R1D-VU2MDAH: VHF&UHF U PSC REM 1FO, 2&MDA, DC, HP  
HONBDA-R1D-VU304H: VHF&UHF U PSC REM 1FO, 3&0.7-4MHz, DC, HP  
HONBDA-R1D-VU322H: VHF&UHF U PSC REM 1FO, 3&2-2MHz, DC, HP  
HONBDA-R1D-VU32H: VHF&UHF U PSC REM 1FO, 3&2MHz, DC, HP  
HONBDA-R1D-VU34H: VHF&UHF U PSC REM 1FO, 3&4MHz, DC, HP  
HONBDA-R1D-VU35H: VHF&UHF U PSC REM 1FO, 3&5MHz, DC, HP  
HONBDA-R1D-VU3MDAH: VHF&UHF U PSC REM 1FO, 3&MDA, DC, HP  
HONBDA-R1D-VUN04H: VHF&UHF U PSC REM 1FO, ND&0.7-4MHz, DC, HP  
HONBDA-R1D-VUN22H: VHF&UHF U PSC REM 1FO, ND&2-2MHz, DC, HP  
HONBDA-R1D-VUN2H: VHF&UHF U PSC REM 1FO, ND&2MHz, DC, HP  
HONBDA-R1D-VUN4H: VHF&UHF U PSC REM 1FO, ND&4MHz, DC, HP  
HONBDA-R1D-VUN5H: VHF&UHF U PSC REM 1FO, ND&5MHz, DC, HP  
HONBDA-R1D-VUNMDAH: VHF&UHF U PSC REM 1FO, ND&MDA, DC, HP  
HONBDA-R1D-VUTNNH: VHF&UHF PSC REM 1FO, ND&ND, DC, HP  
HONBDA-R2D-T0H: UHF T PSC REM 2FO, 0.7MHz, DC, HP  
HONBDA-R2D-T1H: UHF T PSC REM 2FO, 1.5MHz, DC, HP  
HONBDA-R2D-T2H: UHF T PSC REM 2FO, 2MHz, DC, HP  
HONBDA-R2D-TRWCH: UHF T PSC REM 2FO, RWC, DC, HP  
HONBDA-R2D-TWMOH: UHF T PSC REM 2FO, WMO, DC, HP  
HONBDA-R2D-U2H: UHF U PSC REM 2FO, 2MHz, DC, HP  
HONBDA-R2D-U4H: UHF U PSC REM 2FO, 4MHz, DC, HP  
HONBDA-R2D-UMDAH: UHF U PSC REM 2FO, MDA, DC, HP  
HONBDA-R2D-UT02H: UHF PSC REM 2FO, 0.7-2MHz, DC, HP  
HONBDA-R2D-UT12H: UHF PSC REM 2FO, 1.5-2MHz, DC, HP  
HONBDA-R2D-UT22H: UHF PSC REM 2FO, 2-2MHz, DC, HP  
HONBDA-R2D-UTNH: UHF PSC REM 2FO, ND, DC, HP  
HONBDA-2D-VT200H: VHF&UHF T PSC REM 2FO, 2&0.7-0.7MHz, DC, HP  
HONBDA-R2D-VT20H: VHF&UHF T PSC REM 2FO, 2&0.7MHz, DC, HP  
HONBDA-R2D-VT211H: VHF&UHF T PSC REM 2FO, 2&1.5-1.5MHz, DC, HP  
HONBDA-R2D-VT21H: VHF&UHF T PSC REM 2FO, 2&1.5MHz, DC, HP  
HONBDA-R2D-VT22H: VHF&UHF T PSC REM 2FO, 2&2MHz, DC, HP  
HONBDA-R2D-VT2RWCH: VHF&UHF T PSC REM 2FO,2&RWC,DC,HP  
HONBDA-R2D-VT300H: VHF&UHF T PSC REM 2FO, 3&0.7-0.7MHz, DC, HP  
HONBDA-R2D-VT30H: VHF&UHF T PSC REM 2FO, 3&0.7MHz, DC, HP  
HONBDA-R2D-VT311H: VHF&UHF T PSC REM 2FO, 3&1.5-1.5MHz, DC, HP  
HONBDA-R2D-VT31H: VHF&UHF T PSC REM 2FO, 3&1.5MHz, DC, HP  
HONBDA-R2D-VT32H: VHF&UHF T PSC REM 2FO, 3&2MHz, DC, HP  
HONBDA-R2D-VT3RWCH: VHF&UHF T PSC REM 2FO, 3&RWC, DC, HP  
HONBDA-R2D-VTN00H: VHF&UHF T PSC REM 2FO, ND&07-07MHz, DC, HP  
HONBDA-R2D-VTN0H: VHF&UHF T PSC REM 2FO, ND&0.7MHz, DC, HP  
HONBDA-R2D-VTN11H: VHF&UHF T PSC REM 2FO, ND&15-15MHz, DC, HP  
HONBDA-R2D-VTN1H: VHF&UHF T PSC REM 2FO, ND&1.5MHz, DC, HP  
HONBDA-R2D-VTN2H: VHF&UHF T PSC REM 2FO, ND&2MHz, DC, HP  
HONBDA-R2D-VTNRWCH: VHF&UHF T PSC REM 2FO, ND&RWC, DC, HP  
HONBDA-R2D-VU204H: VHF&UHF U PSC REM 2FO, 2&0.7-4MHz, DC, HP  
HONBDA-R2D-VU222H: VHF&UHF U PSC REM 2FO, 2&2-2MHz, DC, HP  
HONBDA-R2D-VU22H: VHF&UHF U PSC REM 2FO, 2&2MHz, DC, HP  
HONBDA-R2D-VU24H: VHF&UHF U PSC REM 2FO, 2&4MHz, DC, HP  
HONBDA-R2D-VU25H: VHF&UHF U PSC REM 2FO, 2&5MHz, DC, HP  
HONBDA-R2D-VU2MDAH: VHF&UHF U PSC REM 2FO, 2&MDA, DC, HP  
HONBDA-R2D-VU304H: VHF&UHF U PSC REM 2FO, 3&0.7-4MHz, DC, HP  
HONBDA-R2D-VU322H: VHF&UHF U PSC REM 2FO, 3&2-2MHz, DC, HP

**HONBDA-R2D-VU32H:** VHF&UHF U PSC REM 2FO, 3&2MHz, DC, HP  
**HONBDA-R2D-VU35H:** VHF&UHF U PSC REM 2FO, 3&5MHz, DC, HP  
**HONBDA-R2D-VU3MDAH:** VHF&UHF U PSC REM 2FO, 3&MDA, DC, HP  
**HONBDA-R2D-VUN04H:** VHF&UHF U PSC REM 2FO, ND&0.7-4MHz, DC, HP  
**HONBDA-R2D-VUN22H:** VHF&UHF U PSC REM 2FO, ND&2-2MHz, DC, HP  
**HONBDA-R2D-VUN2H:** VHF&UHF U PSC REM 2FO, ND&2MHz, DC, HP  
**HONBDA-R2D-VUN4H:** VHF&UHF U PSC REM 2FO, ND&4MHz, DC, HP  
**HONBDA-R2D-VUN5H:** VHF&UHF U PSC REM 2FO, ND&5MHz, DC, HP  
**HONBDA-R2D-VUNMDAH:** VHF&UHF U PSC REM 2FO, ND&MDA, DC, HP  
**HONBDA-R2D-VUTNNH:** VHF&UHF PSC REM 2FO, ND&ND, DC, HP

## Standards and Codes

These listings and approvals apply to the modules specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult factory for latest listing status.

- Buy American Compliant: meets the definition of Domestic Construction Material under the Buy American Act
- FCC Compliant
- IFC 2015, 2018, 2021 Edition Standard
- ISO 9001 PECB Certified
- Made in America Compliant
- NFPA 72, 2013 Edition Standard
- NFPA 1221, 2016, 2019 Edition Standard
- ROHS Compliant
- UL 2524 2nd Edition Listing with SGS, Nationally Recognized Testing Laboratory (NRTL) approved by OSHA for UL 2524



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Country of Origin: USA

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