

BILL OF MATERIALS

OEM: HONDA N-BOX_DBA-JF3F_MILLIWAVE RADAR

MANUFACTURER: ROBERT BOSCH GMBH

FUNCTION: RADAR

DOCUMENT ID:

NO.	CATEGORY	FUNCTION	MANUFACTURER	PART NUMBER	LOCATION	QUANTITY	UNIT PRICE (USD)	PRICE (USD)	REMARK
1	CONTROLLER	MCU	STM	SPC56HK	PCB#2	1	\$	\$	
2		ASIC	STM	A267BB	PCB#2	1			
3		GPU	-	-	-	0			
4		FPGA	-	-	-	0			
5		POWER MANAGEMENT	BOSCH	40203	PCB#1	1			ALSO ASIC
6		A/D CONVERTER	-	-	-	0			
7		DC-DC CONVERTER	-	-	-	0			
8		STEP DOWN CONVERTER	-	-	-	0			
9		VOLTAGE REGULATOR	-	-	-	0			
10	MEMROY	DRAM	-	-	-	0			
11		FLASH MEMORY	-	-	-	0			
12		EMMC	-	-	-	0			
13		EEPROM	-	-	-	0			
14	TIMING DEVICE	FORK	-	-	-	0			
15		AT-XTAL	NDK	UNKNOWN	PCB#2	1			
16		AT-XTAL + THERMISTOR	-	-	-	0			
17		TCXO	-	-	-	0			
18		MEMS	-	-	-	0			
19	WIRED CONNECTIVITY	CAN TRANSCEIVER	INFINEON	TLE6251-2G	PCB#1	1			
20		LIN TRANSCEIVER	-	-	-	0			
21		ETHERNET TRANSCEIVER	-	-	-	0			
22	WIRELESS	WIFI	-	-	-	0			
23		WIFI ANTENNA	-	-	-	0			
24		BLUETOOTH	-	-	-	0			
25		BLUETOOTH ANTENNA	-	-	-	0			
26		NFC	-	-	-	0			
27		NFC ANTENNA	-	-	-	0			
28		WIRELESS CHARGER	-	-	-	0			
29		WIRELESS CHARGER ANTENNA	-	-	-	0			
30		ULTRA WIDE BAND TRANSCEIVER	-	-	-	0			
31		ULTRA WIDE BAND ANTENNA	-	-	-	0			
32		V2X TRANSCEIVER	-	-	-	0			
33		V2X ANTENNA	-	-	-	0			
34		2G/3G/4G/5G TRANSCEIVER	-	-	-	0			
35		2G/3G/4G/5G ANTENNA SWITCH	-	-	-	0			
36		2G/3G/4G/5G POWER AMPLIFIER	-	-	-	0			
37		2G/3G/4G/5G PROCESSOR	-	-	-	0			
38		SIM CARD SLOT	-	-	-	0			
39		MILLIMETER WAVE RECEIVER	INFINEON	RRN7745PL	PCB#2	1	\$	\$	
40		MILLIMETER WAVE TRANSMITTER	INFINEON	FTN7735PL	PCB#2	1	\$	\$	

41		MILLIMETER WAVE ANTENNA	UNKNOWN	UNKNOWN	PCB#2	1	\$	\$	
42	AUDIO VISUAL	DISPLAY	-	-	-	0	\$	\$	
43		DISPLAY CONTROLLER	-	-	-	0	\$	\$	
44		DISPLAY DRIVER	-	-	-	0	\$	\$	
45		BACKLIGHT LED	-	-	-	0	\$	\$	LCD ONLY
46		ILLUMINATION LED	-	-	-	0	\$	\$	
47		LED CONTROLLER	-	-	-	0	\$	\$	
48		TOUCH PANEL CONTROLLER	-	-	-	0	\$	\$	
49		MICROPHONE	-	-	-	0	\$	\$	
50		SPEAKER	-	-	-	0	\$	\$	
51		AUDIO CODEC	-	-	-	0	\$	\$	
52	SENSORS	AMBIENT	-	-	-	0	\$	\$	
53		TEMPERATURE	-	-	-	0	\$	\$	
54		DIGITAL COMPASS	-	-	-	0	\$	\$	
55		ACCELEROMETER	-	-	-	0	\$	\$	
56		GYROSCOPE	-	-	-	0	\$	\$	
57	OPTICAL	CAMERA #1 IMAGE PROCESSOR	-	-	-	0	\$	\$	
58		CAMERA #1 CMOS IMAGE SENSOR	-	-	-	0	\$	\$	
59		CAMERA #1 LENS + MODULE	-	-	-	0	\$	\$	
60		LIDAR EMITTER	-	-	-	0	\$	\$	
61		LIDAR RECEIVER	-	-	-	0	\$	\$	
62		LIDAR CONTROLLER	-	-	-	0	\$	\$	
63		LIDAR POWER MANAGEMENT	-	-	-	0	\$	\$	
64		DRIVE MONITOR IR EMITTER	-	-	-	0	\$	\$	
65		DRIVE MONITOR RECEIVER/SENSOR	-	-	-	0	\$	\$	
66	PCB	PCB#1 - MAIN BOARD	BOARDTEK ELECTRONIC	UNKONWN	PCB#1	1	\$	\$	SIZE: 48.1 X 55.6 MM
67		PCB#2 - ANTENNA	BOARDTEK ELECTRONIC	UNKONWN	PCB#2	1	\$	\$	SIZE: 47.6 X 55.7 MM
68	CABLE + CONNECTOR	CABLE + CONNECTOR PAIR #1	-	-	-	0	\$	\$	
69		CONNECTOR PAIR #1	UNKNOWN	UNKNOWN	MIXED	1	\$	\$	PCB#1 / PCB#2
70		CONNECTOR PAIR #2	UNKNOWN	UNKNOWN	MIXED	1	\$	\$	FRONT COVER / PCB#2
71		FLEXIBLE FLAT CABLE + CONNECTOR PAIR #1	-	-	-	0	\$	\$	
72		RF CABLE + CONNECTOR PAIR #1	-	-	-	0	\$	\$	
73		STAND ALONE CONNECTOR	UNKONWN	UNKNOWN	FRONT COVER	1	\$	\$	WITH FRONT COVER
74		STAND ALONE CONNECTOR	UNKONWN	UNKNOWN	FRONT COVER	1	\$	\$	WITH FRONT COVER
75		STAND ALONE CONNECTOR	UNKONWN	UNKNOWN	FRONT COVER	1	\$	\$	WITH FRONT COVER
76	PASSIVE COMPONENTS	CHIP CAPACITOR (MLCC)	UNKNOWN	UNKNOWN	MIXED	76	\$	\$	6332 () 5025 () 3216 (18) 2012 (18) 1608 (40)
						82	\$	\$	1005 (82)
						0	\$	\$	0603 () 0402 ()
						1	\$	\$	OTHER (1)

77		CHIP RESISTOR	UNKNOWN	UNKNOWN	MIXED	85	\$		6332 () 5025 () 3216 () 2012 (8) 1608 (11) 1005 (66) 0603 () 0402 () OTHER ()
78		CHIP INDUCTOR	UNKNOWN	UNKNOWN	MIXED	3	\$		6332 () 5025 () 3216 () 2012 () 1608 (3) 1005 () 0603 () 0402 () OTHER ()
79		CHIP DIODE	STM	STTH102-Y	PCB#1	1	\$		6332 () 5025 () 3216 () 2012 () 1608 () 1005 () 0603 () 0402 () OTHER (1)
80		CHIP FILTER	-	-	-	0	\$		6332 () 5025 () 3216 () 2012 () 1608 () 1005 () 0603 () 0402 () OTHER ()
81		POWER INDUCTOR	PANASONIC	ETQP5M100YFK	PCB#1	1	\$		
82		POWER INDUCTOR	PANASONIC	ETQP5m220YFK	PCB#1	1	\$		
83		POWER INDUCTOR	PANASONIC	ETQP4M4R7KVK	PCB#1	1	\$		
84		POWER INDUCTOR	UNKNOWN	UNKNOWN	PCB#1	1	\$		
85		SMALL TRANSISTOR/DIODE	UNKNOWN	UNKNOWN	MIXED	3	\$		
86		POWER TRANSISTOR/MOSFET/INVERTER	-	-	-	0	\$		
87		MOSFET	-	-	-	0	\$		
88		TANTALUM CAPACITOR	-	-	-	0	\$		
89		ALUMINUM CONDENSER	ELNA	UNKNOWN	PCB#1	1	\$		
90		COMMON MODE CHOKE	-	-	-	0	\$		
91		TRANSIENT VOLTAGE SUPPRESSOR	VISHAY	TPSMB16A	PCB#1	1	\$		
92		SCHOTTKY POWER RECTIFIER	ONSEMI	NRVBA340N	PCB#1	4	\$	\$	

93	CASING	FRONT COVER	UNKONWN	UNKONWN	OTHER	1	\$	\$	WITH CONNECTOR
94		PCB HOLDER	UNKONWN	UNKONWN	OTHER	1	\$	\$	
95		REAR COVER	UNKONWN	UNKONWN	OTHER	1	\$	\$	
96		SCREW	-	-	-	3	\$	\$	
97		WATERPROOF	UNKNOWN	UNKNOWN	MIXED	1	\$	\$	
98	OTHER	MOTOR	-	-	-	0	\$	\$	
99		HEAT TREATMENT - CU FOIL	-	-	-	0	\$	\$	
100		HEAT TREATMENT - CARBON	-	-	-	0	\$	\$	
101		HEAT TREATMENT - HEAT PIPE	-	-	-	0	\$	\$	
102		HEAT TREATMENT - VAPOR CHAMBER	-	-	-	0	\$	\$	
103		HEAT TREATMENT - ELASTOMER	-	-	-	0	\$	\$	
104		HEAT TREATMENT - SHEET	UNKONWN	UNKNOWN	PCB#1	1	\$	\$	
105		ID STICKER	UNKONWN	UNKNOWN	FRONT COVER	1	\$	\$	
106		EMI SHIELD - TAPE	-	-	-	0	\$	\$	
107		EMI SHIELD - METAL CAP	-	-	-	0	\$	\$	
108		UNIDENTIFIED IC	-	-	-	0	\$	\$	
							TOTAL	\$	\$

Sample