

Engineering/Process Change Notice

ECN/PCN No.: R0043

	For Ma	nufacturer		
Product Description: Bluetooth modules	Abracon Part Numb ABBTM Bluetoo	per / Part Series: th module series	 □ Documentation only □ ECN ☑ EOL 	⊠ Series □ Part Number
Affected Revision: N/A	New Revision: E	OL	Application:	□ Safety ⊠ Non-Safety
Prior to Change: ABBTM-2.4GHZ, ABBTM-2 2.4GHZ-51, ABBTM-2.4GHZ-51-T, ABBTM-2 2.4GHZ-T2, ABBTM-NVC-EVK-56, ABBTM-N CON, ABBTM-NVC-MDCS71, ABBTM-NVC-M NVC-MDCS71-101, ABBTM-NVC-MDCS86-1 2.4GHZ-T, ABBTM-103-2.4GHZ-T, ABBTM-2 NVC-MDCS56-102. After Change: All 32 EOL	2.4GHZ-52, ABBTM-2. IVC-EVK-71, ABBTM-N MDCS71-CON, ABBTN L01, ABBTM-101-2.4G	4GHZ-52-T, ABBTM-2.4 IVC-EVK-71-MESH, AB I-NVC-MDCS71-MESH, HZ-T, ABBTM-2.4GHZ-	4GHZ-EVAL, ABBTM-2.4GHZ BTM-NVC-MB-EVK, ABBTM- ABBTM-NVC-MDCS71-MES 51-101-, ABBTM-2.4GHZ-52	-T, ABBTM- NVC-MDCS42A- H-CON, ABBTM- 2-101, ABBTM-53-
Cause/Reason for Change: Due to low demand, the Bluetooth Module	ABBTM series is disc	ontinued.		
	Char	nge Plan		
Effective Date: 06/08/2021	Additional Remarks: N/A			
Change Declaration: EOL	1			
Issued Date: 06/08/2021	Issued By: Nicholas El-Takach		Issued Department: Engineering	
Approval: Syed Raza Engineering VP		Quintanilla Director	Approval: Ying Huar Purchasing Di	-
	For Abra	on EOL only		
Last Time Buy (if applicable): No last time buy.		Alternate Part Numb N/A	per / Part Series:	
Additional Approval:	Additional Approva	:	Additional Approval:	
	Customer Appr	oval (If Applicable)		
Qualification Status: <i>Note: It is considered approved if there is n</i>		□ Not accepted sustomer 1 month after	r ECN/PCN is released.	
Customer Part Number:		Customer Project:		
Company Name:	Company Represent	tative:	Representative Signature	:
Customer Remarks:				

Form #7020 | Rev. G | Effective: 02/22/2021 |

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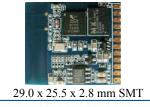






ABBTM-2.4GHz-33-T





FEATURES:

- Bluetooth Spec v1.2 Compliant
- Class 2, up to 10-meter range
- Complete 2.4GHz Bluetooth® System
- Power management: low power 1.8V operation for Bluetooth® core
- Compact size: 29.0mm (L) x 25.5 (W) mm x 2.8 (H) mm
- Bluetooth® Profile Supported: HSP, HFP, A2DP, AVRCP
- Built-in stereo codec
- Internal antenna
- Built-in audio amplifier
- Built-in power manager
- On-board flash memory (8Mbits)
- Echo cancellation software library
- Several firmware options
- Rewritable flash memory for easy upgrade route

GENERAL DESCRIPTION

Abracon's ABBTM-2.4GHz-33-T module is a complete Bluetooth® solution built on CSR BC03 MultiMedia External Core, supported by 8Mbit on-board Flash Memory. ABBTM-2.4GHz-33-T is a short range, compact, cost effective solution designed to facilitate Bluetooth® connectivity for applications including Car & Home Audio and other Handsfree solutions.

Compliant to MSL level 3

ABBTM-2.4GHz-33-T module is a Power Class-2 Bluetooth® device, compliant with version 1.2 specification. The overall architecture comprises of built-in antenna and supporting circuitry for software protocols including L2CAP, SDP, GAP, HSP, HFP, A2DP and AVRCP, resident in the on-board Flash Memory.

Decrating Frequency Band 24GHz ~ 248GHz

Operating Frequency Band	2.4GHz ~ 2.48GHz Unlicensed ISM Band
Bluetooth Specification	V1.2
Output Power Class	Class 2
Operating Voltage	+3.3V and +5.0V
Host Interface	UART
Flash Memory Size	8 Mb

	A	bsolute N	Jaximum Ratings	
			Minimum	Maximum
Storage temperature			-40°C	+150°C
Supply voltage: VBAT			-0.30V	3.6V

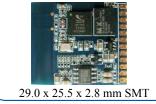
Recommend	ed Operating Conditions	
	Minimum	Maximum
Operating temperature range	-40°C	+85°C
Supply voltage: Vcc	+3.0V	+3.6V
Supply voltage: Vdd	+1.7V	+1.9V



> APPLICATIONS:

- Automotive car kit applications
- PDAs and other portable terminals
- Car radio/Car DVD

ABBTM-2.4GHz-33-T



RoHS

Compliant

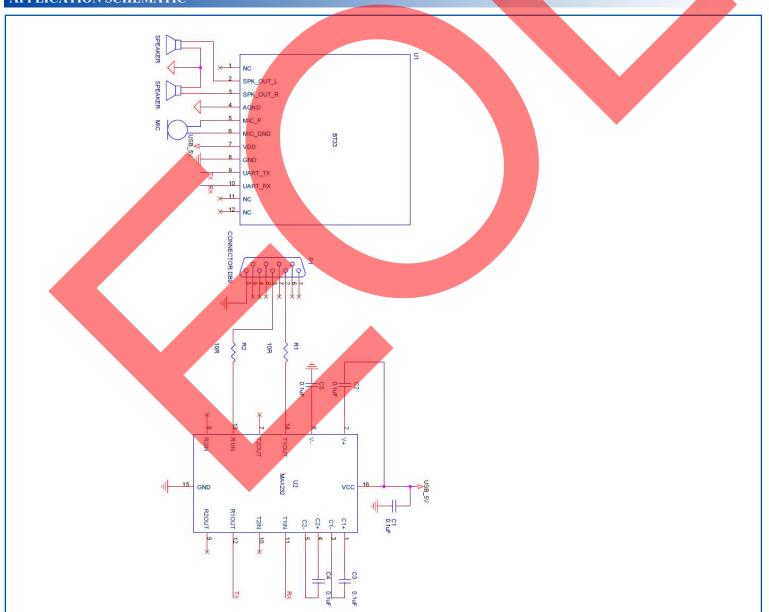
Firmware Configuration

- a) UART Baud: 115200, N, 8, 1
- b) BlueTooth Name: BlueAudio
- c) Pin Code:
- 0000

Software Description

- 1. After Power on 3V3, the module is connectable and Pairing
- 2. ABBTM-2.4GHz-33-T can be found with the name "BlueAudio" via any Bluetooth device
- 3. Input the Pincode "0000", you can pair with the module named "BlueAudio"
- 4. Then the BlueAudio can be connected
- 5. Data can be transferred between the BlueAudio and any other Bluetooth device

APPLICATION SCHEMATIC





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ABBTM-2.4GHz-33-T



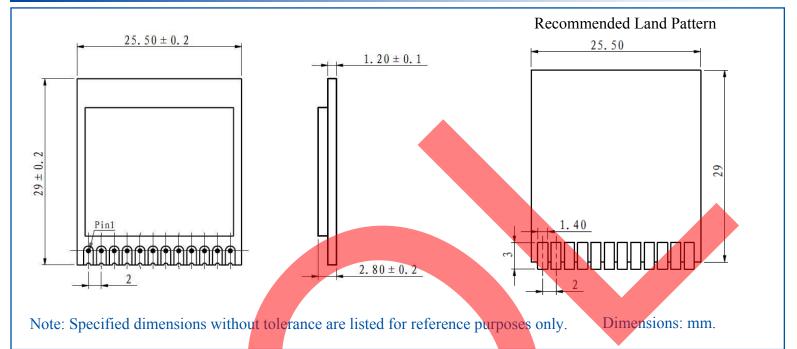
RoHS

Compliant

Pb

MECHANICAL DIMENSIONS

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PIN DESCRIPTION

Pin No.	Name	Туре	Function
1	NC	Input / Output	Not used currently
2	SPK_OUT_L	Output	Left channel audio out
3	SPK_OUT_R	Output	Right channel audio out
4	AGND	Ground	Analog ground
5	MIC_P	Input	Microphone positive pole input, internal power
			supply
6	MIC_GND	Ground	Microphone ground
7	VDD	Input	Power supply, $+3.3V \sim +5V$
8	GND	Ground	Power ground
9	UART_TX	Output	UART data output
10	UART)RX	Input	UART data input
11	NC	Input / Output	Not used currently
12	NC	Input / Output	Not used currently

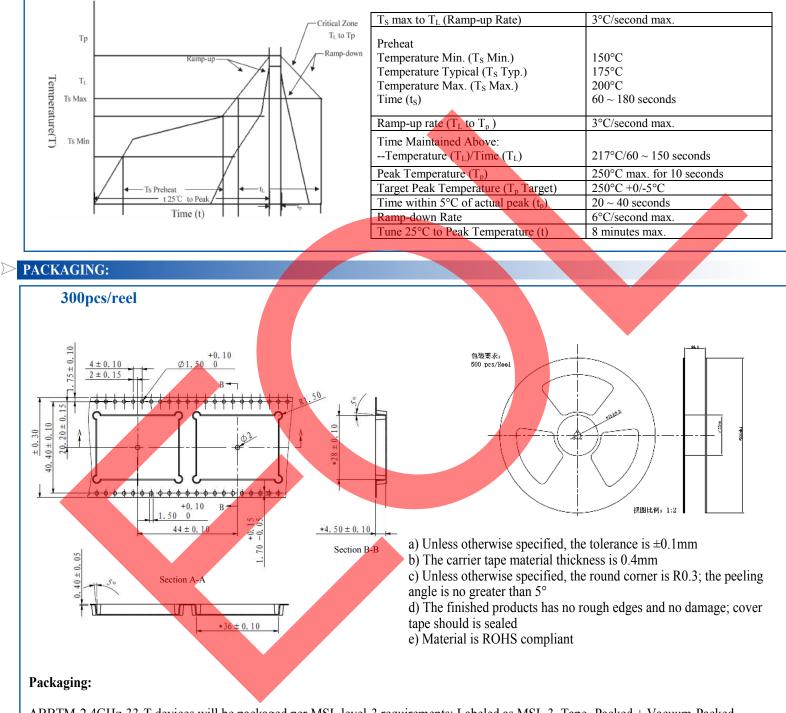


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ABBTM-2.4GHz-33-T



REFLOW PROFILE



ABBTM-2.4GHz-33-T devices will be packaged per MSL level-3 requirements; Labeled as MSL 3, Tape- Packed + Vacuum-Packed with Antistatic bag, Desiccant, Humidity Indicator Card (HIC). Ref: IPC/JEDEC J-STD-033B.1

ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.

ABRACON IS ISO 9001:2008 CERTIFIED



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