

BSS Transponder 2G 0255 (BSS255T)

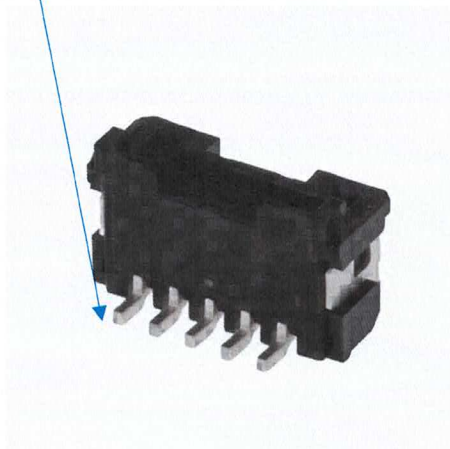
TeraTron GmbH, Martin-Siebert-Str. 5, 51647 Gummersbach

Technical Data

Safety field system Transponder BSS255T	
Power supply	Cable operation: 9-32 VDC (12 VDC nom.) Battery operation: 3.7 V – 5.0 VDC (3.7 VDC nom.)
Current consumption	Cable operation: max. 100 mA Battery operation: max. 70 mA, average current < 30mA
Interface-CAN	CAN speed: 250 kBaud, UDS-diagnostic, Node ID 5
Interface-HF	Operation frequency: 2.4 GHz ISM-Band Frequency channels: 2.400 to 2.4835 GHz RF output power: +10.6 dBm EIRP (mean) Antenna: PCB - Bi-quad antenna, max.6 dBi gain
Connector	6 pin header, Molex 5055750681
Operating temperature range	-40°C - +85°C
Storage temperature range	-40°C - +85°C
Degree of protection by enclosure	-
Operating area	Inside of Hetronic RRC housing (Txp board SMD side with protective finish)
Dimension (L x B x H)	Transponder-PCB: 84 mm x 50 mm x 1,7 mm Antenna-PCB: 84 mm x 46 mm x 1 mm, fitted with spacers in 10mm distance to Txp-PCB
Weight	28.5 g
Item number	90000759
Item number Bomag	05763470

Pin-assignment – front few

1	2	3	4	5	6
+12V	Sync (reserve)	GND	+3.6V	CAN-H	CAN-L



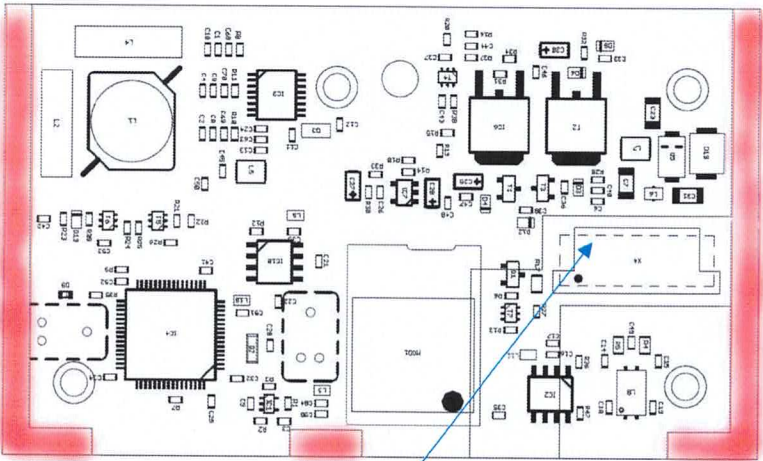
Molex 5055750681

Possible receptacle connector in RRC harness: Molex 5055700601

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Red areas (3mm) are reserved for slide in tracks inside remote control housing



Highest part on PCB is connector with 8.7mm (vertical orientation)

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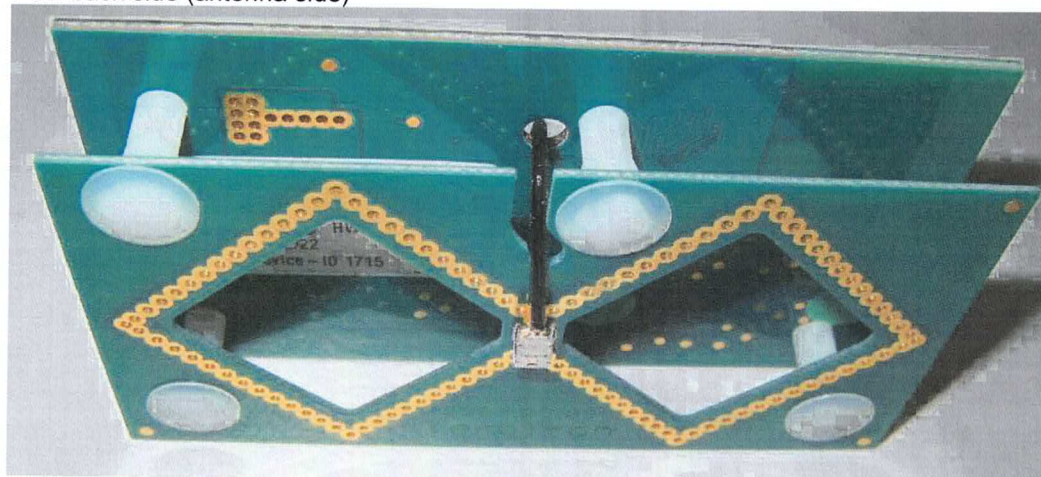
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Photos of PCB

PCB front side



PCB back side (antenna side)



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Compliance Statements

Compliance Statements FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Model: BSS255T

FCC ID: QLXBSS255T

Brand: TeraTron

Compliance Statements IC

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Model: BSS255T

IC ID: 4430A-BSS255T

Brand: TeraTron

Operation Notice

The BSS255T device needs to be operated with a minimum distance of 20cm between the antenna and any Person and that it must not be co-located or operated in conjunction with any other antenna or transmitter.

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Installation and service

Installation and service of the BSS255T shall be done by authorized service personnel only.

The device is to be used or installed only for BOMAG equipment.

The device is only sold through BOMAG authorized dealers, who sell the product to other businesses.

Due to safety reasons and the nature of the product in which the device will be built-in, the device will be delivered already installed in the BMP8500.

In case of any spare part need in the future, it will be only provided by BOMAG dealer and installed by licensed professional trained by BOMAG.

Disposal

The end customer has to care for proper disposal of the device.



Manufacturer

BSS255T is a product of

TeraTron GmbH
Martin-Siebert-Str. 5
D-51647 Gummersbach
Germany

Brand declaration on PCB:

„TeraTron“
„0255.02.xx“

Technical changes reserved.

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