

AUTOMOTIVE PARTS TEARDOWN

Honda N-Box mmW Radar

36801-TTA-J06



PRODUCT OVERVIEW



GENERAL	
Dimension	82.5 x 74.0 x 31.7mm, 192.2g
Display	-
OS	-
MCU	SPC56HK (STM)
Memory	IN MCU
Camera	-
Battery	-
Running Time	-
SENSOR	
Motion Sensor	-
Ambient Sensor	-
Biometric Sensor	-
Security Sensor	-
WIRELESS	
Cellular	-
Connectivity	-
Location	-
Other	77.0 GHz
INTERFACE & OTHERS	
External Connection	-
External Memory	-
Water/Dust Repellent	Unknown

Manufacturer	Robert Bosch GmbH
Model Name	Radar Sensor
Model Number	36801-TTA-J06
Authentication	FCC: NF3-MRREV014F JP: 202-LSC039
Carrier	-
Product Release	Unknown
Assembled in	China
Retail Price	Unknown
Document ID	

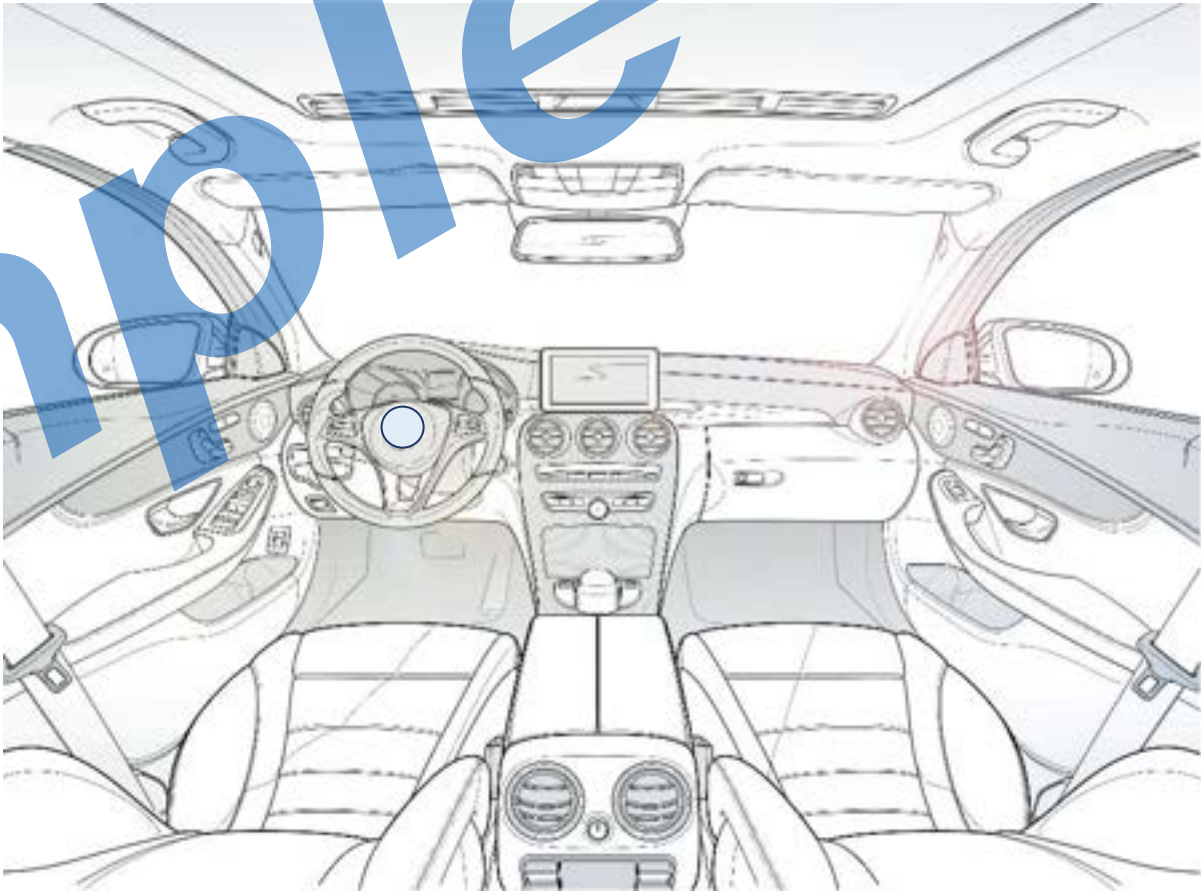
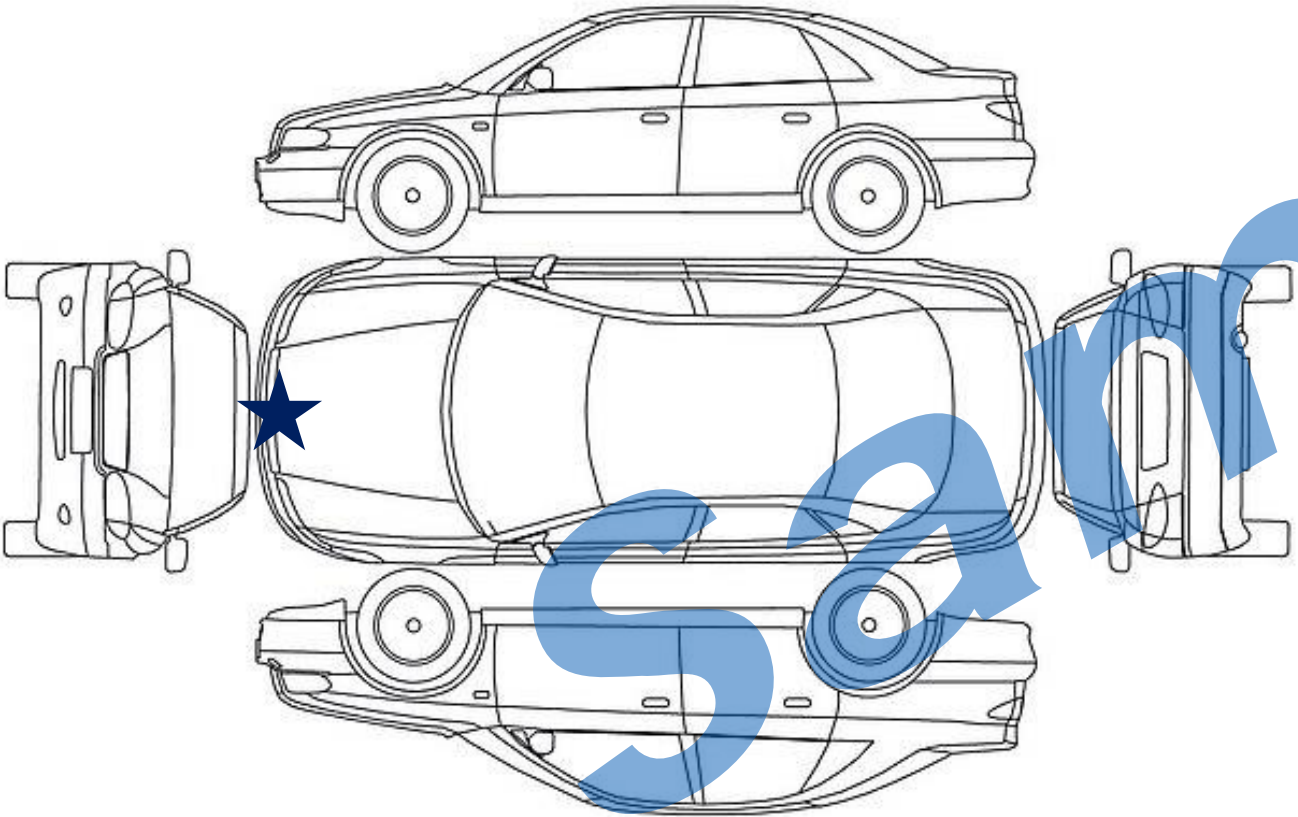
PRODUCT OVERVIEW



Category	Subcategory			
Powertrain	Charger	Conditioner	Inverter	Motor Control
Battery	Main Control	Sub Control	-	-
Electronics	Safety/ADAS	Audio Visual	Communication	HVAC



PARTS LOCATION



SPECIFICATION



Category	Criteria	Parameter
Dimension	Size	82.5 x 74.0 x 31.7mm
	Weight	190.2g
Electronics	Microcontroller ASIC	SPC56HK(STM) 40203 (Bosch), A267BB (STM)
	DRAM	IN MCU
	Flash Memory	IN MCU
Connectivity	Wired	CAN (Infineon)
	Wireless	77MHz
Audio Visual	Display	-
	Camera	-

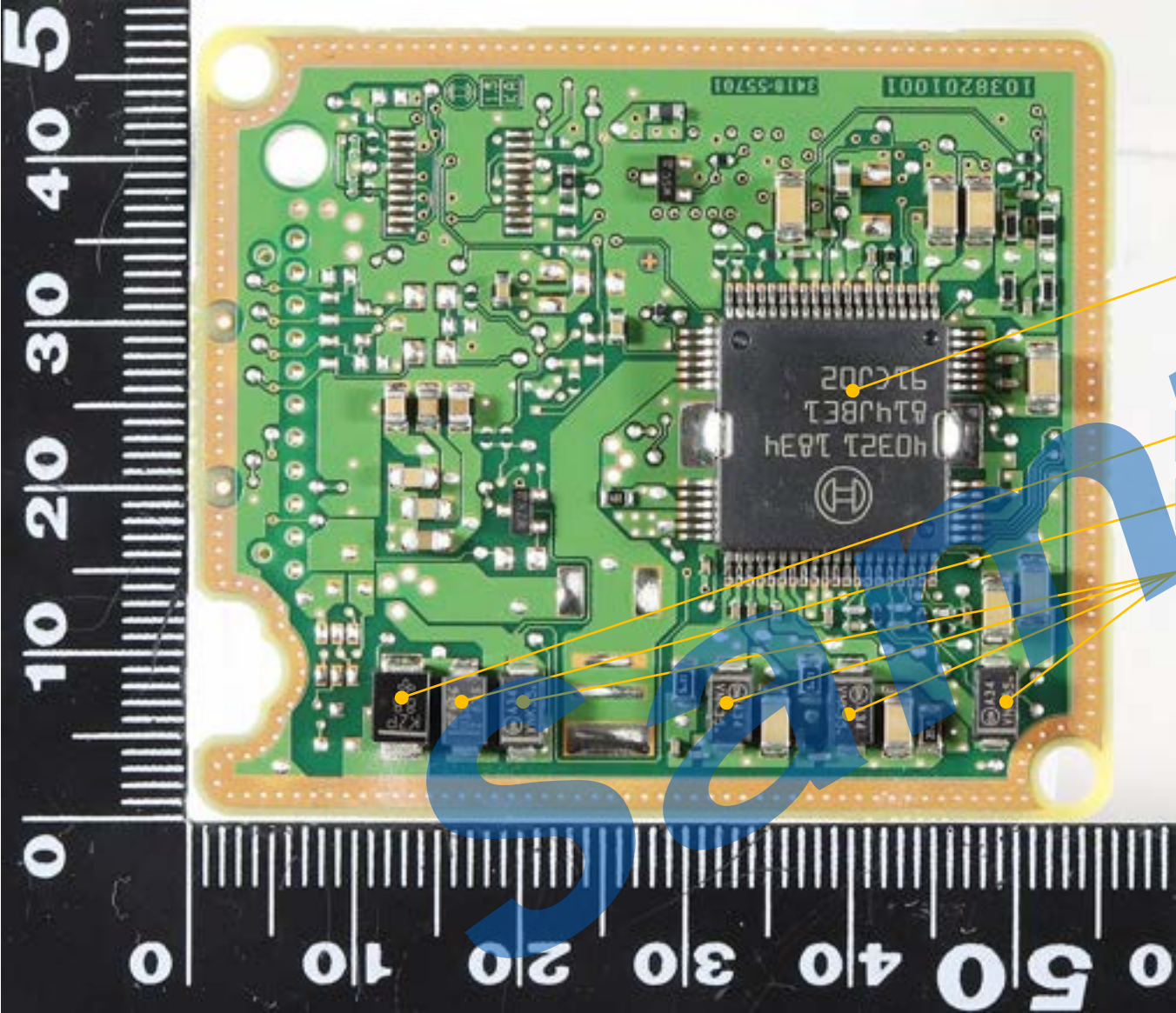
PCB/FPC LISTINGS

Unit: millimeter otherwise specified



	PCB#1	PCB#2	-	-	-	-	-	-
Function	Main Board	Sub Board	-	-	-	-	-	-
Manufacturer	BoardTech Electronic	BoardTech Electronic	-	-	-	-	-	-
Dimension	48.1 x 55.6 x 1.14	47.6 x 55.7 x 1.66	-	-	-	-	-	-
Area (sq. mm)	5300	5100	-	-	-	-	-	-
Layer	6	7	-	-	-	-	-	-
ZIF Connector #	-	-	-	-	-	-	-	-
B2B Connector #	2	1	-	-	-	-	-	-
Solder #	-	-	-	-	-	-	-	-
RF Socket #	-	-	-	-	-	-	-	-
Other Connector #	-	-	-	-	-	-	-	-
Marking Photo			-	-	-	-	-	-

PCB#1 SIDE A: KEY COMPONENTS



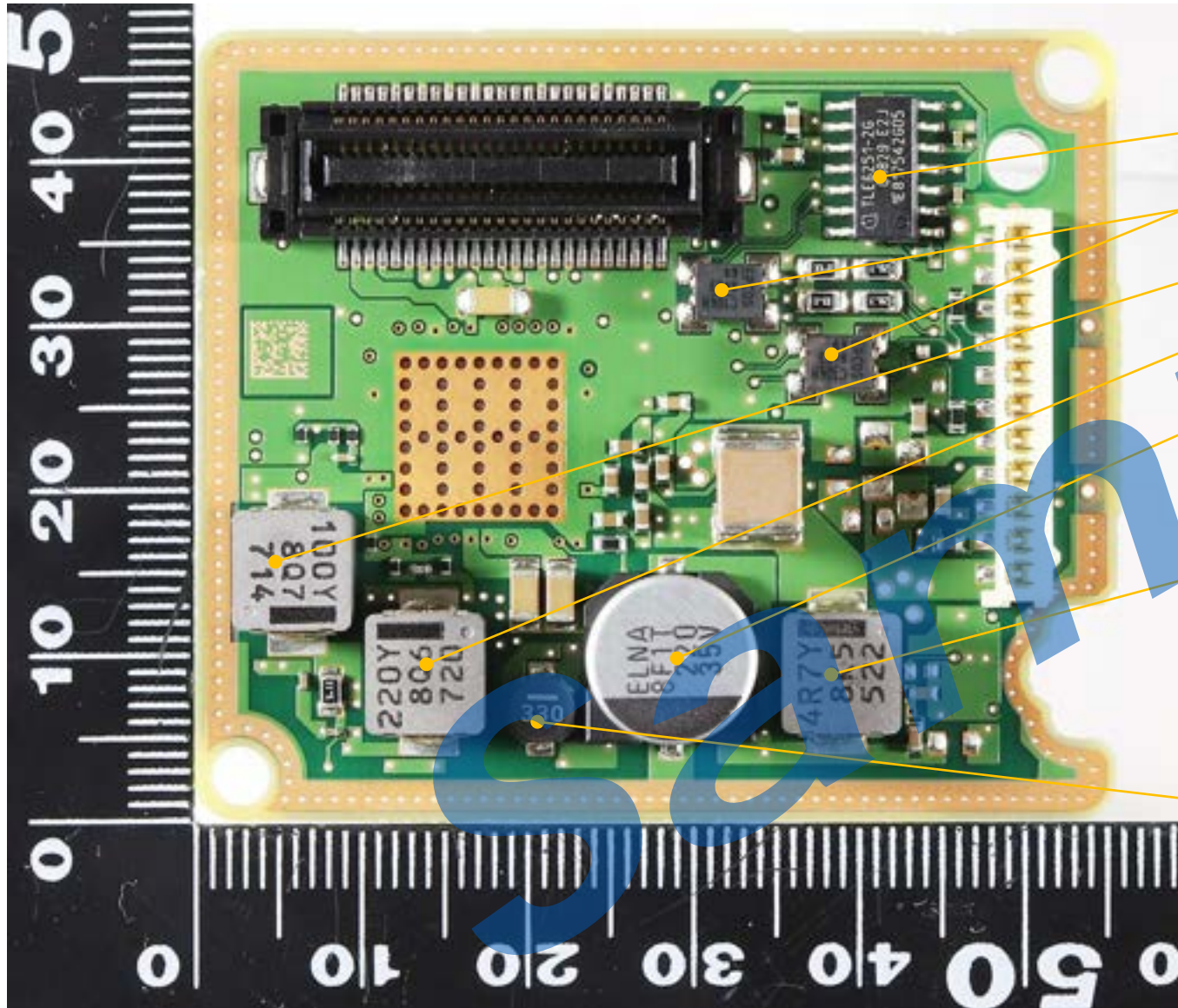
ASIC, Power Management (Bosch)
40203

Transient Voltage Suppressor (Vishay)
TPSMB16A

Diode (STM)
STTH102-Y

Schottky Power Rectifier (Onsemi)
NRVBA340N

PCB#1 SIDE B: KEY COMPONENTS



High Speed CAN Transceiver (Infineon)
TLE6251-2G

Common Mode Choke (TDK)
B82789C

Power Inductor (Panasonic)
ETQP5M100YFK

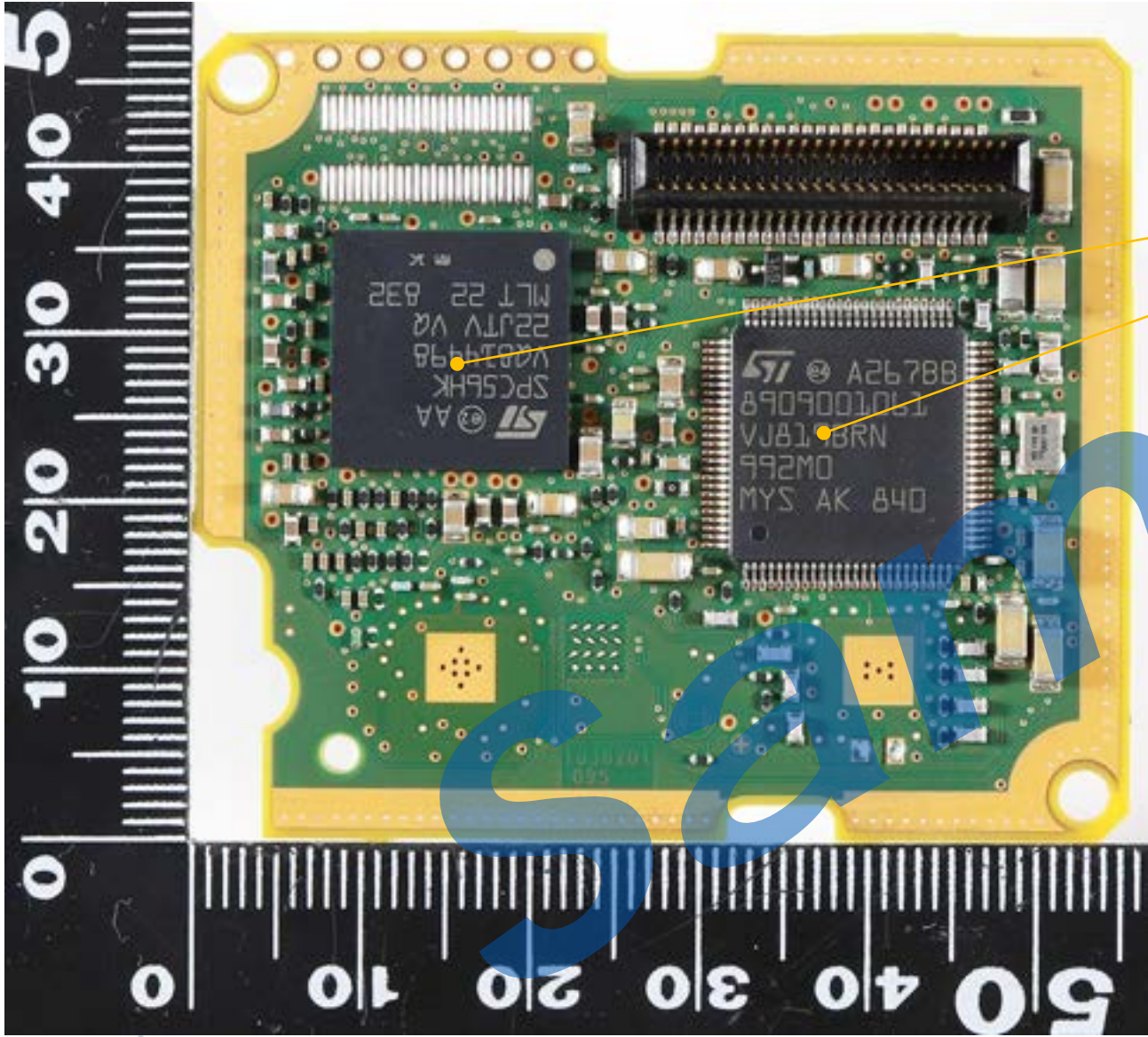
Power Inductor (Panasonic)
ETQP5m220YFK

Aluminum Electrolytic Capacitor (Elna)
8FIT 220 35V

Power Inductor (Panasonic)
ETQP4M4R7KVK

Power Inductor (mnf. unknown)
330

PCB#2 SIDE A: KEY COMPONENTS

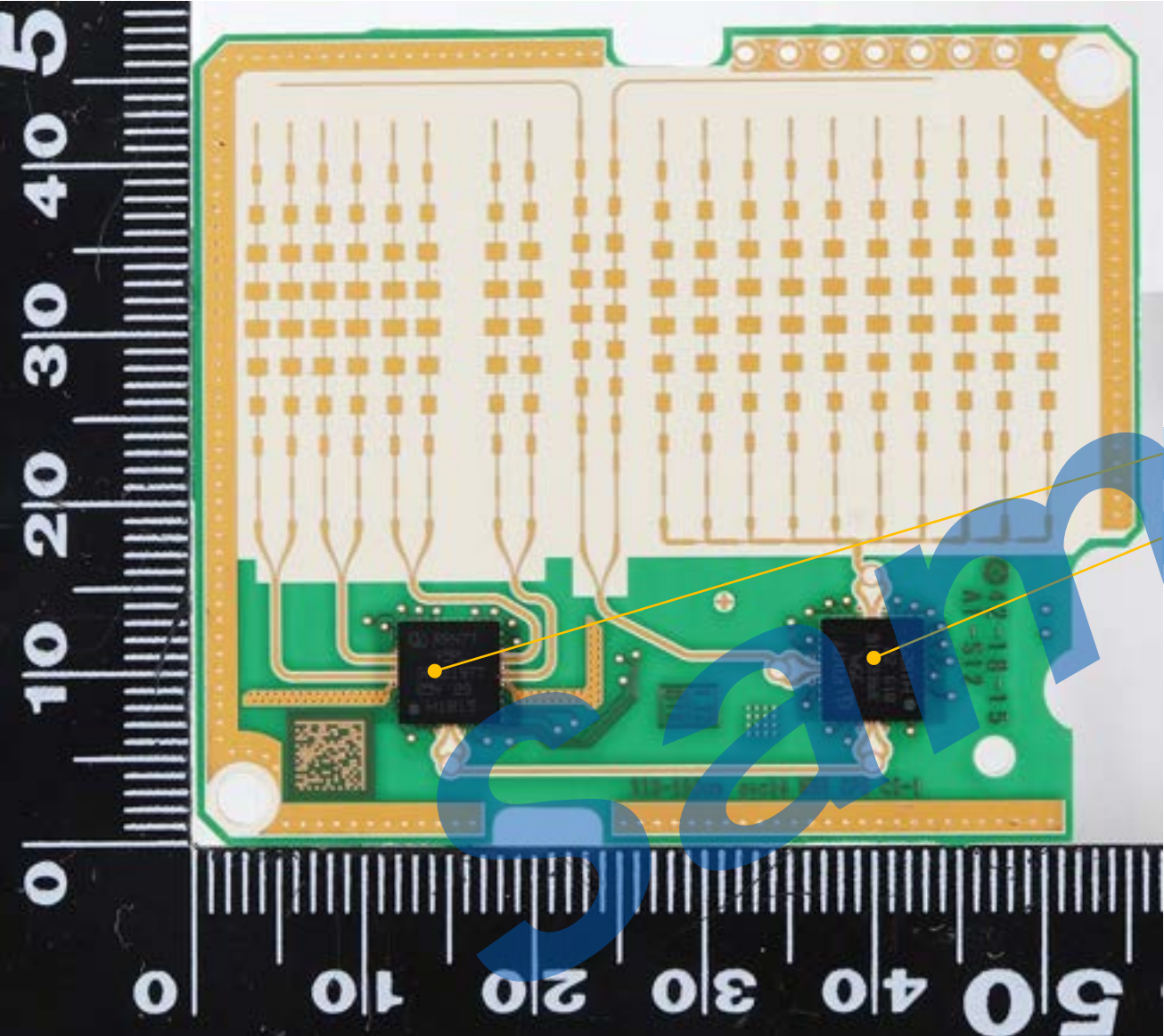


Microcontroller (STM)
SPC56HK

ASIC (STM)
A267BB

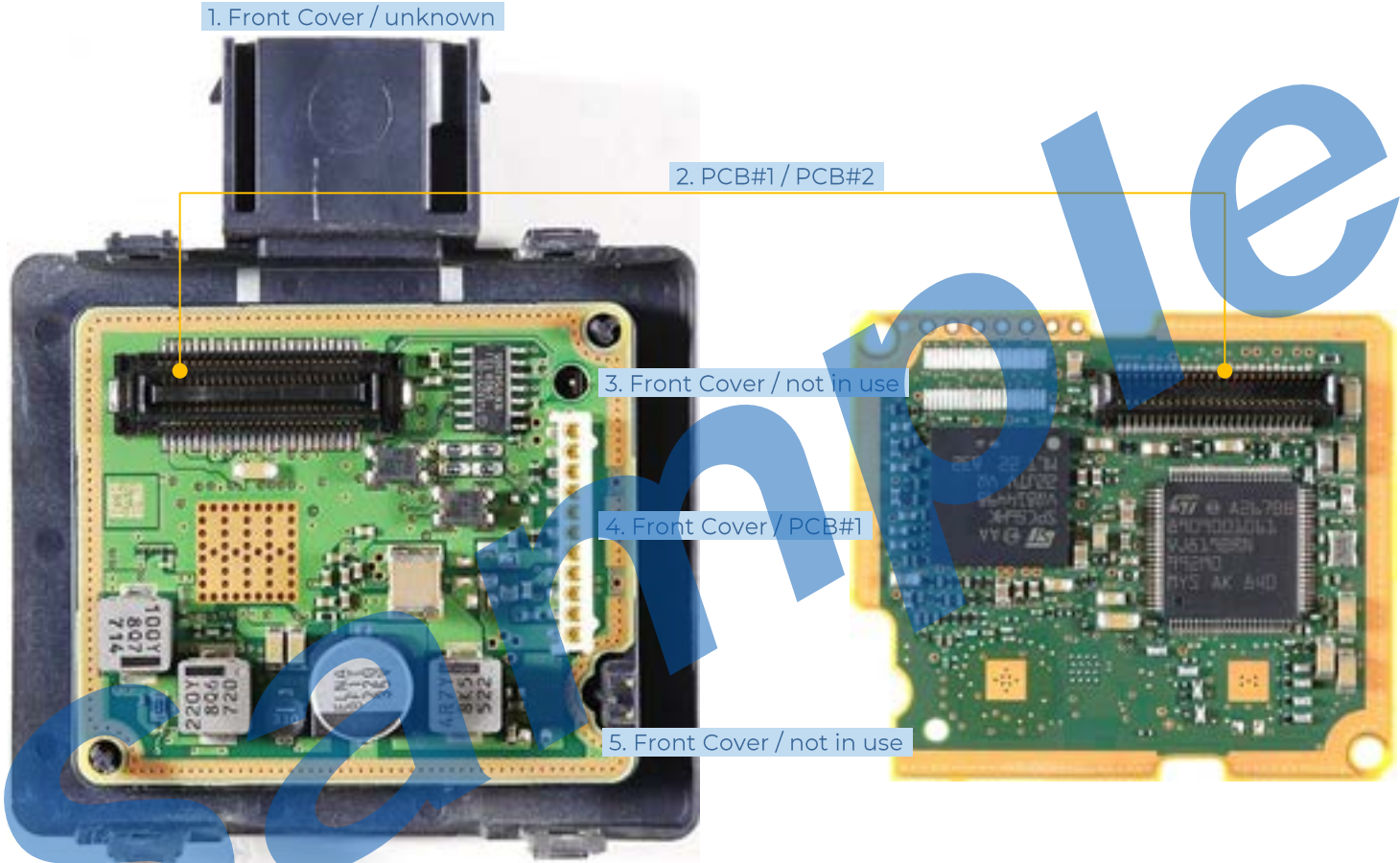
Sample

PCB#2 SIDE B: KEY COMPONENTS



77GHz Receiver (Infineon)
RRN7745PL

77GHz Transmitter (Infineon)
FTN7735PL



CONNECTOR DETAILS

Unit: millimeter otherwise specified



1	Front Cover	unknown
Image		
Mnf.	unknown	
Count	Pin # 8	Pitch 3.41
L x W x H	18.19 x 28.11 x 19.04	
2	PCB#1	PCB#2
Image		
Mnf.	unknown	
Count	Pin # 50	Pitch 0.67
L x W x H	23.77 x 8.05 x 4.76	
3	Front Cover	Not in use
Image		
Mnf.	unknown	
Count	Pin # 1	Pitch -
L x W x H	-	

4	Front Cover	PCB#1
Image		
Mnf.	unknown	
Count	Pin # 11	Pitch -
L x W x H	23.68 x 3.21 x 4.08	
5	Front Cover	Not in use
Image		
Mnf.	unknown	
Count	Pin # 2	Pitch 2.86
L x W x H	-	

FRONT COVER

Unit: millimeter otherwise specified



Front Cover	
Size	81.3 x 68.8 x 18.8
Weight (g)	30.0
Material	>PBT GF30<
Finish	-

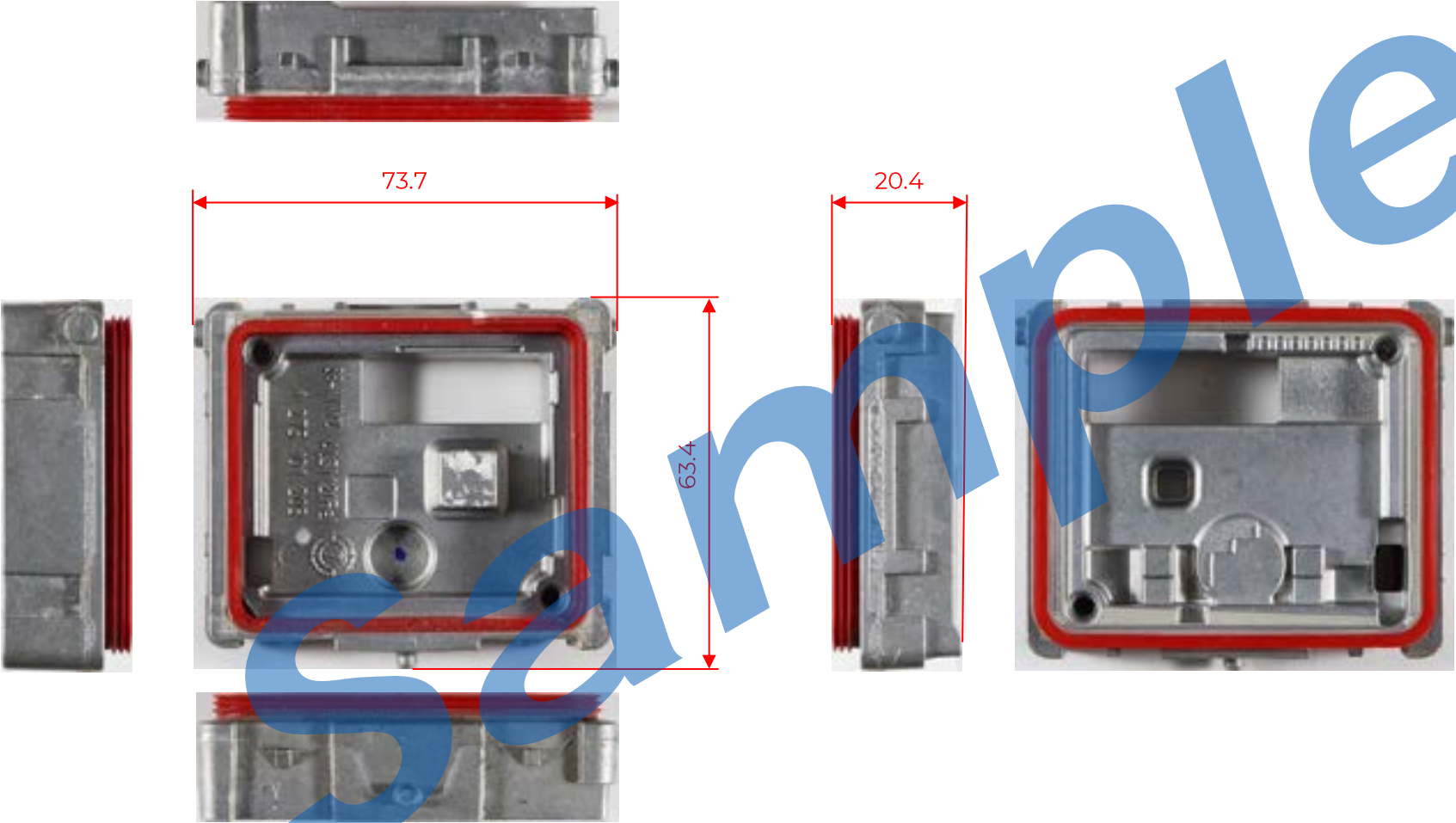


PCB HOLDER

Unit: millimeter otherwise specified



PCB Holder	
Size	73.7 x 63.4 x 20.4
Weight (g)	94.0
Material	ALSi12(Fe)
Finish	-

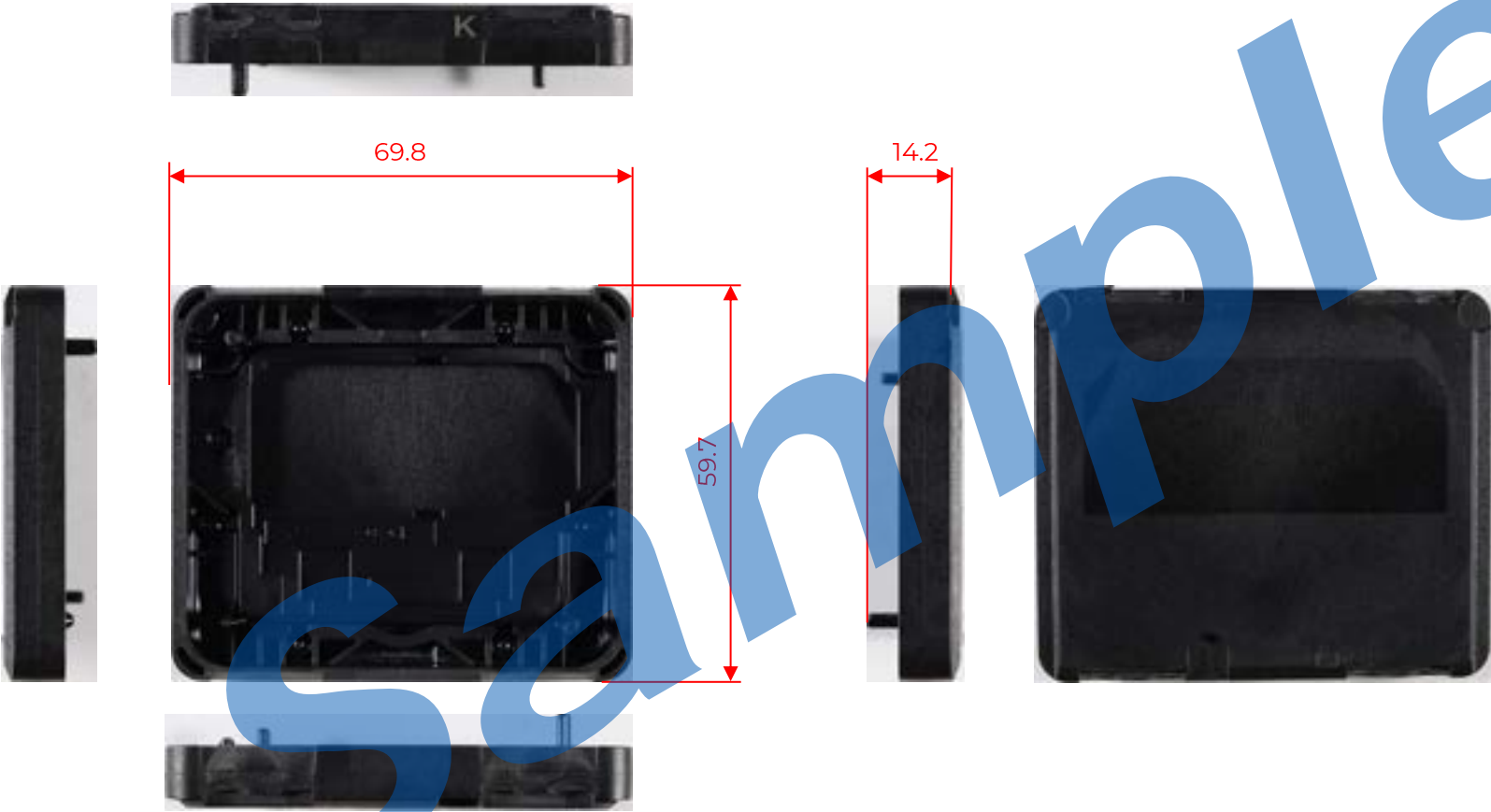


REAR COVER

Unit: millimeter otherwise specified

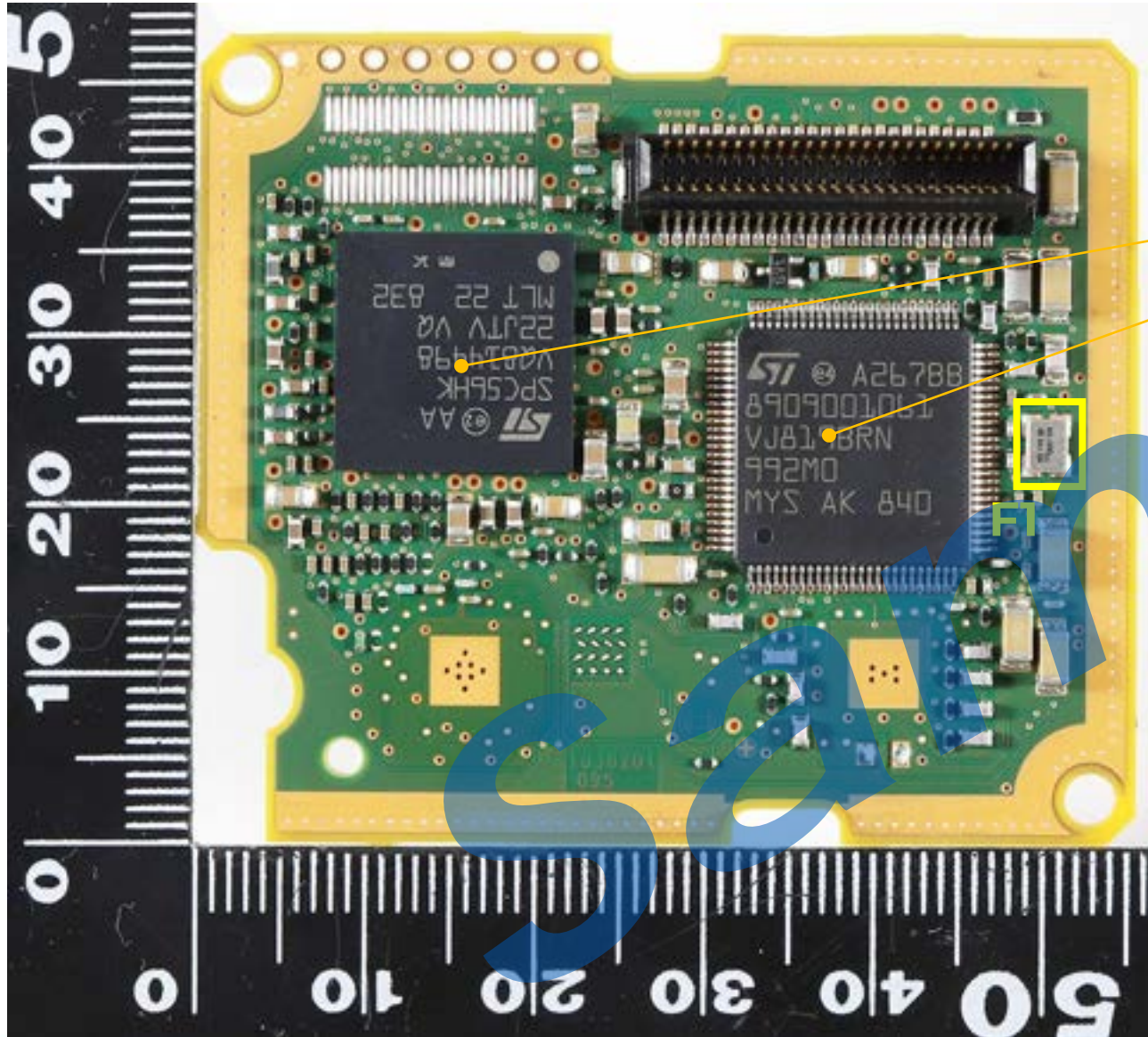


Rear Cover	
Size	69.8 x 59.7 x 14.2
Weight (g)	19.6
Material	>PC+C<
Finish	-



TIMING DEVICE: PCB#2 SIDE A: KEY COMPONENTS

Unit: millimeter otherwise specified



Microcontroller (STM)
SPC56HK

ASIC (STM)
A267BB

(F1)



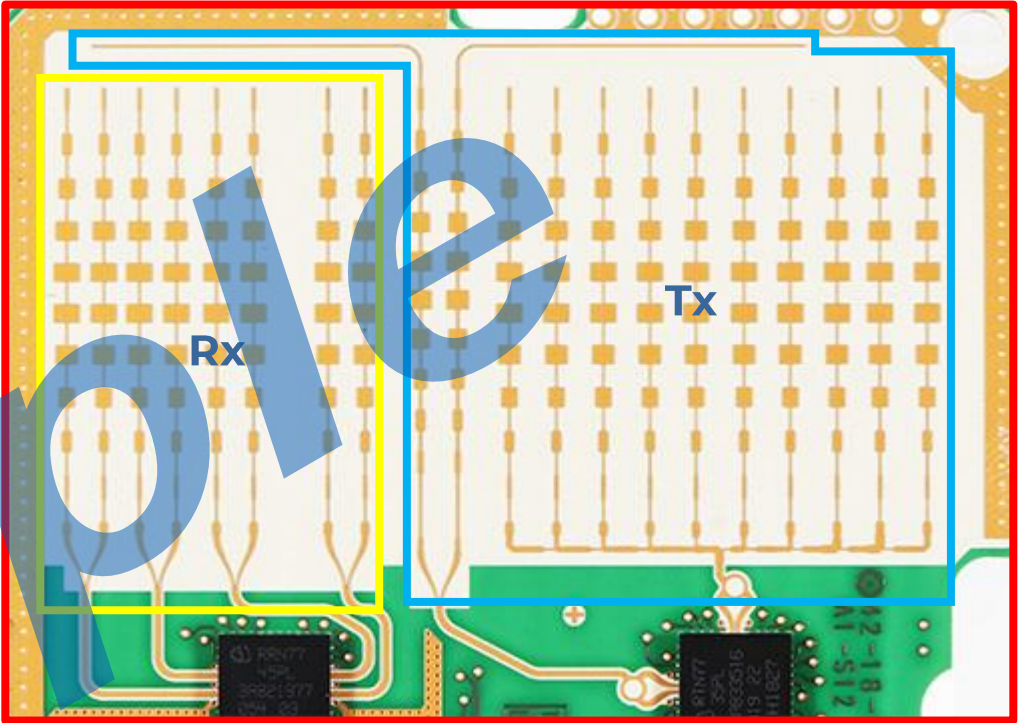
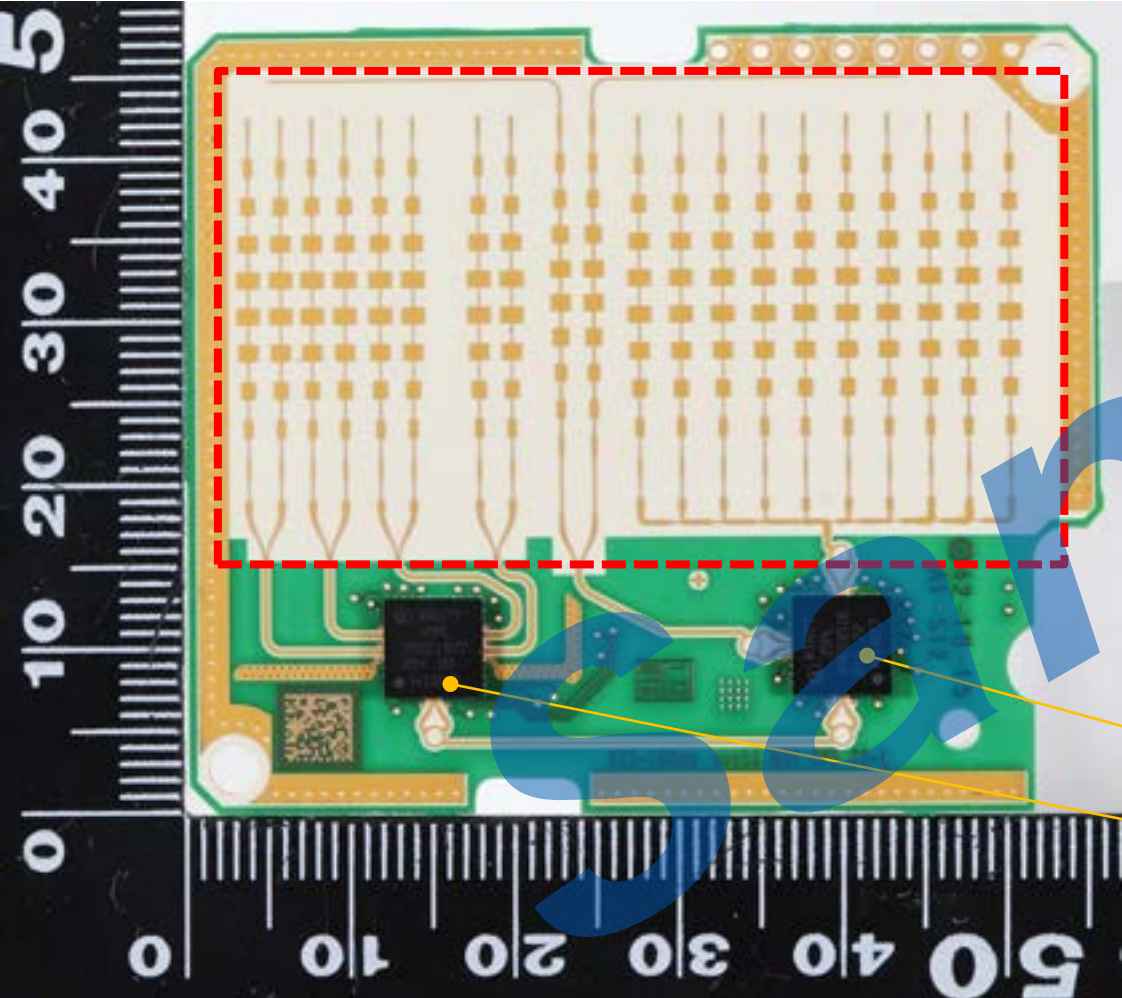
(F1) AT-XTAL	
Mnf.	NDK
Marking	80.000 (LOGO)86:DS BB
Size	3.19 x 2.50 x 0.75

ANTENNA (ASSUMPTION)

Unit: millimeter otherwise specified



77GHz Antenna



77GHz Transmitter (Infineon)
FTN7735PL

77GHz Receiver (Infineon)
RRN7745PL



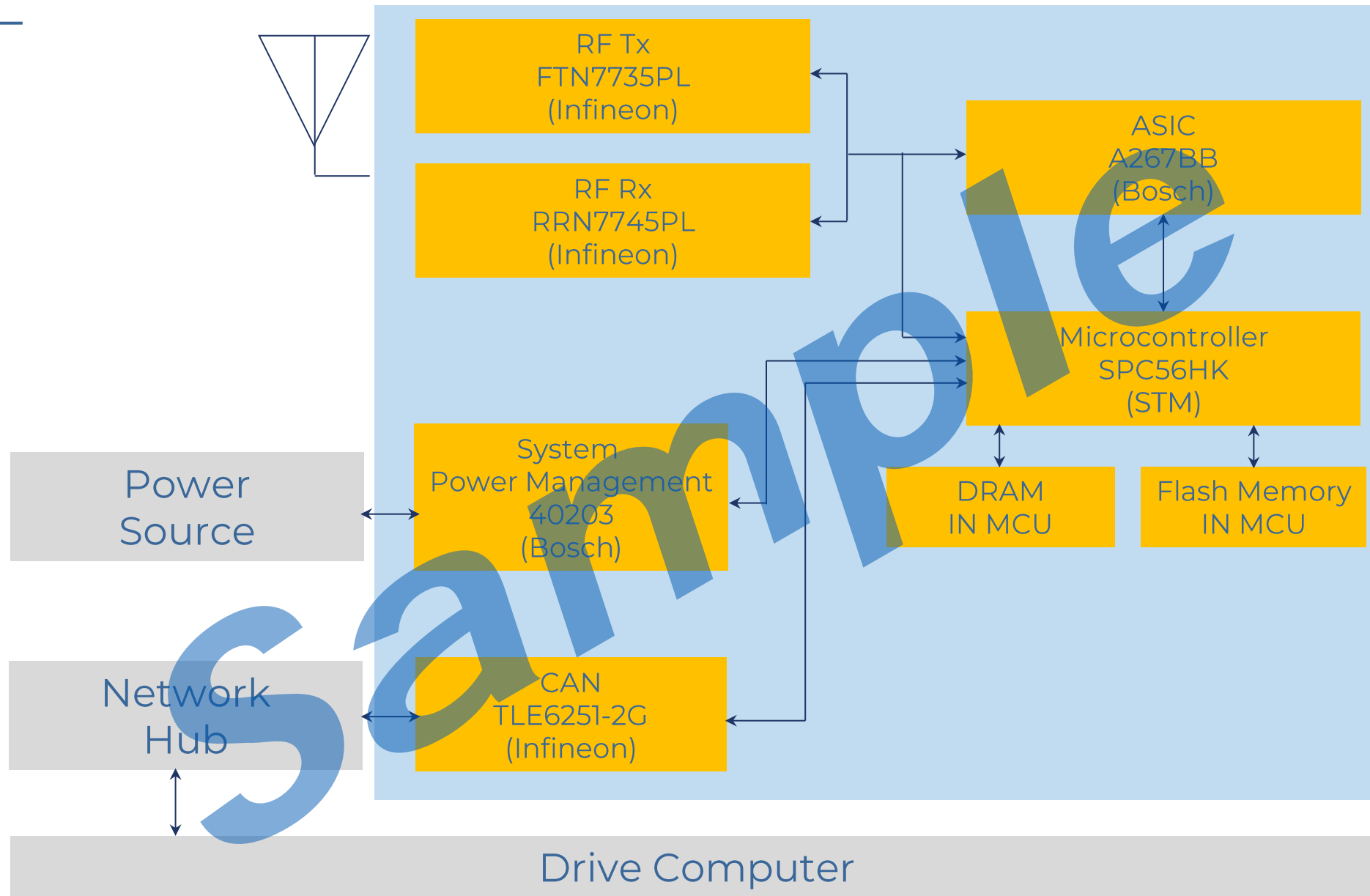
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BLOCK DIAGRAM





SERVICES

- TEARDOWN: on cellular phone, smartphone, tablet, base station, automotive, laptop PC, digital still camera, LCD TV, and other consumer electronics and industrial equipment.
- BILL OF MATERIALS: all-component-cost-breakdown into more than 200 categories.
- MARKET REPORT: based on requests.
- SEMINAR: based on requests. Free seminars offered to service subscribers every quarter.
- INTELLECTUAL PROPERTY: old phones available since 1997 up to date. Most of them are functional.

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