

ACCESSORIES (B)

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CIRCUIT DESIGN, INC.

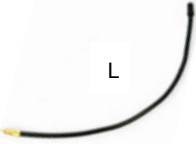
Antenna - 2.4 GHz

Name	Whip Antenna (swivel type)	Whip Antenna	Sleeve Antenna
Photo			
Part no.	ANT-2G4W1R-R	ANT-2G4S3	ANT-2G4S2
Connector	RP-SMA / M	MHF	
Gain dBi	+2	+0	+1.5
VSWR	≤ 2.0	-	≤ 2.0
Environment	None	None	
Dimensions mm	107(L), 10(Ø)	32(L)	149(L)
Remarks	-		

Antenna - 426 to 434 MHz

Water Resistant Antenna (3/8 lambda)	Antenna with Coaxial Cable (1/4 lambda)
	
ANT-400-R	ANT-01-R
SMA / F	TMP
$\leq +2.14$	$\leq +2.14$
≤ 2.0	-
Waterproof	-
184.5(L)	173(L)
Weather Resistant	Cable type 1.5D-2V *, GND plate

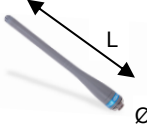
Antenna - 426 to 458 MHz

Name	Lead antenna with plug	Rigid antenna with plug
Photo		
Part no.	ANT-LEA-01-R	ANT-RIG-01-R
Connector	TMP	TMP
Gain dBi	$\leq +2.14$	$\leq +2.14$
Dimension mm	170(L)	170(L)

Antenna - 863 MHz / 869 MHz

Name	Lead antenna with plug	Rigid antenna with plug
Photo		
Part no.	ANT-LEA-02-R	ANT-RIG-02-R
Connector	TMP	TMP
Gain dBi	$\leq +2.14$	$\leq +2.14$
Dimension mm	80(L)	80(L)

Antenna cover

Part No.	Name	Photo	Dimensions mm	Remark
AC-400-R	Water resistant antenna cover		184(L) 8 (Ø)	Slide over Lead and Rigid Antennas

Coaxial cable (From TMP)

(1)The word "Mountable" refers to at least one connector having a flange allowing mounting onto a case

Part no.	Name	Convert to	Photo	Length mm	Cable type	Remark
CBL-RPSMARD-SP 100mm	Conversion Cable (TMP-RPSMA / F)	RP-SMA / F		100	RG-174	Mountable
CBL-RPSMARD-SP 500mm	Conversion Cable (TMP-RPSMA / F)	RP-SMA / F		500	RG-174	Mountable
CBL-SMA-01-R	Conversion Cable (TMP-SMA / M)	SMA / M		100	1.5D-2V *	-
CBL-SMA-05-R	Conversion Cable (TMP-SMA / M)	SMA / M		500	1.5D-2V *	-
CBL-BNC-03	Conversion Cable (TMP-BNC)	BNC	-	200	RG-174	Mountable O-ring seal on BNC
CBL-BNC-02-R	Conversion Cable (TMP-BNC)	BNC		357	1.5D-2V *	Mountable
CBL-SMA-02F-R	Conversion Cable (TMP-SMA / F)	SMA / F		200	RG-174	Mountable

Coaxial cable (From MHF)

Part no.	Name	Convert to	Photo	Length mm	Cable type	Remark
CBL-RPSMARD-MH 15cm	Conversion Cable (MHF-RPSMA / F)	RP-SMA / F		150	RG-178	Mountable

Coaxial cable (From RPSMA)

Part No.	Name	Photo	Length mm	Cable type	Remark
CBL-RPSMARD-SM 20cm	Extension Cable (RPSMA / F - RPSMA / M)		200	RG-316-S0	Mountable Jack-Plug
CBL-RPSMARD-SM 35cm	Extension Cable (RPSMA / F - RPSMA / M)		350	RG-316-S0	Mountable Jack-Plug

Coaxial cable (From SMA)

Part No.	Name	Convert to	Photo	Length mm	Cable type	Remark
CBL-SMA-SMA-50 0.5m	SMA conversion cable (SMA / M - SMA / M)	SMA / M		500	1.5D-2V *	-
CBL-SMA-SMARE2-50	SMA conversion cable (SMA / M - RPSMA / F)	RPSMA / F		500	1.5D-2V *	Mountable Jack-Plug
CBL-SMA-SMA-5D-1000	Coaxial conversion cable (SMA / M - RPSMA / M)	RPSMA / M		10000	5D - FB	-

Extension cable (TMP - OPEN)

Part No.	Name	Photo	Length mm	Cable type	Remark
CBL-TMP-05-R	Extension Cable (TMP)		500	1.5D-2V *	-
CBL-TMP-01-R	Extension Cable (TMP)		170	1.5D-2V *	-

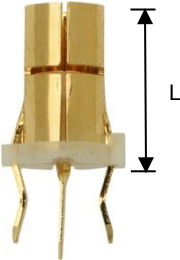
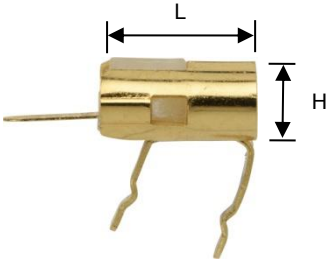
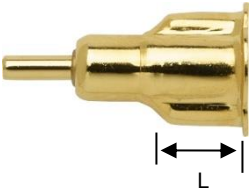
* 1.5D-2V (JIS) : RG174 equivalent

SMA naming reference:

	Inner thread	Outer thread
Center pin	 SMA / M	 RPSMA / F
Center receptacle	 RPSMA / M	 SMA / F

M = male, F = female

Connectors

Part No.	Name	Photo	Dimension mm	Remark
SJ050011	TMP Female (PCB mount) (Vertical)		8.4(L)	Vertical PCB mounting
SJ060011	TMP Female (PCB mount) (Horizontal)		4.2(H), 8.3(L)	Horizontal PCB mounting
SP060022	Male connector (plug) for antenna end		5.6(L)	For direct connection to our modules with TMP socket

Module Connector table

RF Connector Type ↓	TX / RX	Transceiver	Audio	Modem
TMP	CDP-TX-02F, CDP-TX-02E, CDP-TX-02EP, CDT-TX-02M, CDT-RX-03M	-	-	MU-4-434
MHF	-	STD-503 NK-2.4Y	-	-
SMA	-	-	-	SLR-434M
RP-SMA	-	STD-502-R KST2.4S, KSR2.4	-	-
Pin or pad	CDP-RX-02F, CDP-RX-02E, CDP-RX-02EP, CDP-TX-07M, CDP-TX-07MP CDP-RX-07M, CDP-RX-07MP	LMD-401 STD-302Z STD-601	WA-TX-03S, WA-RX-03S	-