

iCBOS-K-Q-OS-SMPM/iCNOS8

40 GHZ O-SMPM TO K

50 GHZ O-SMPM TO 2.4 MM

67 GHZ O-SMPM TO 1.85 MM O-SMPM CABLE

1X8/2X8 O-SMPM SMT PCB CONNECTOR



The O-SMPM cable and 1x8 O-SMPM connector guarantee high electrical and mechanical reliability and stability.

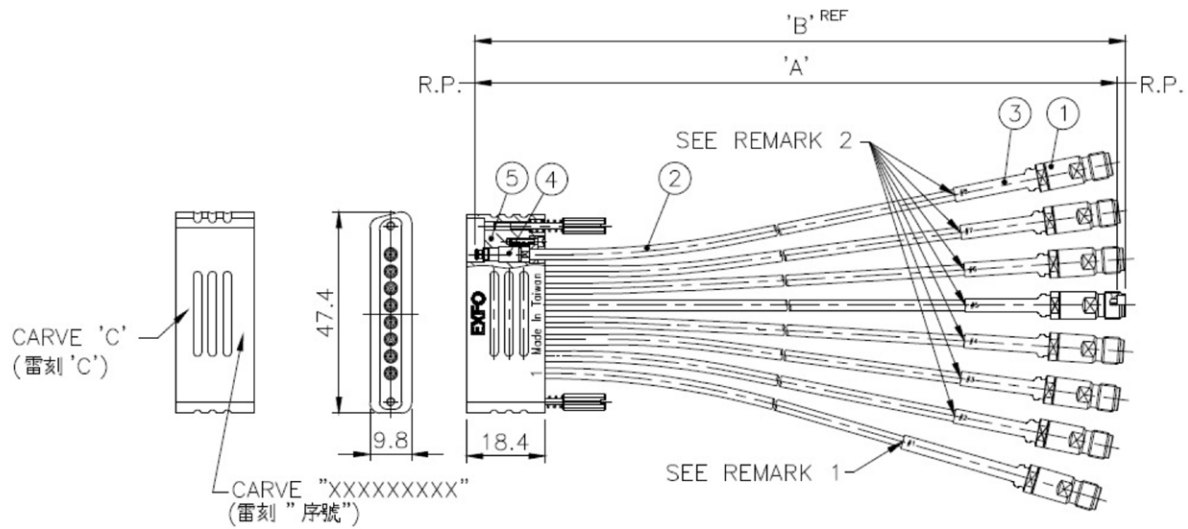
KEY FEATURES

High electrical and mechanical reliability and stability.

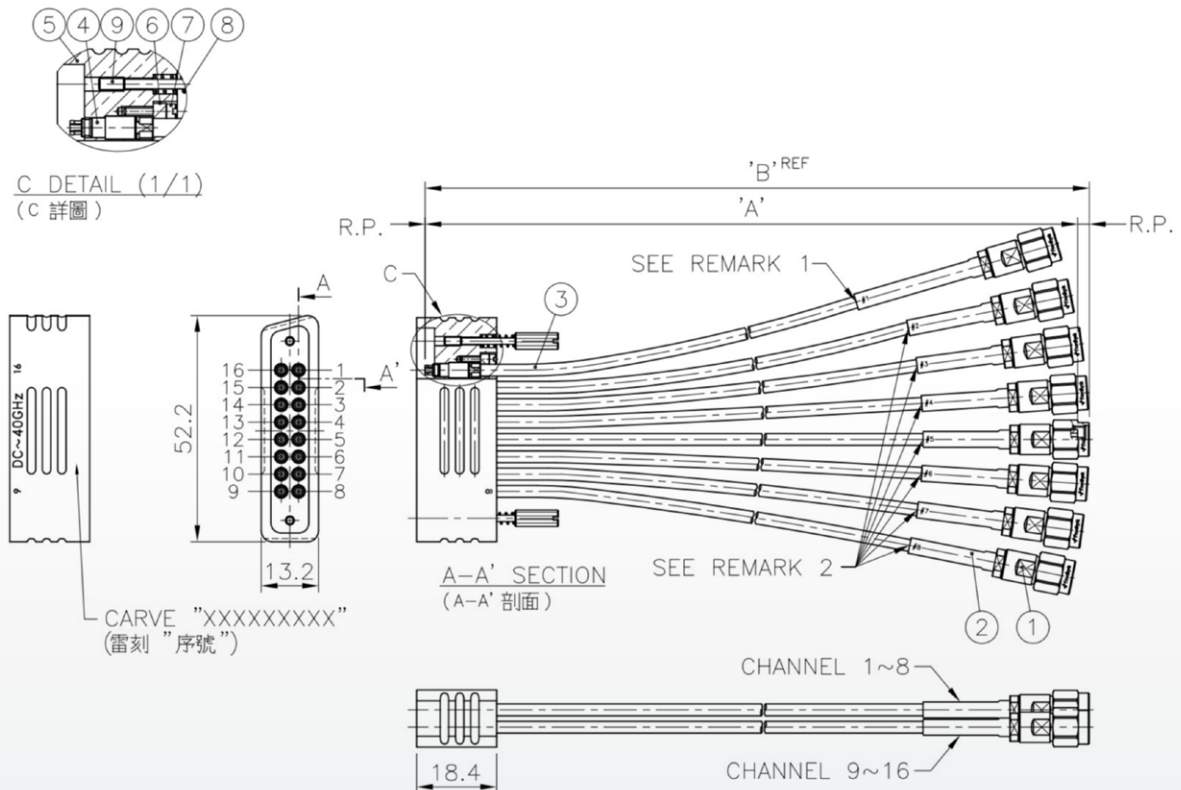
Insert directly the connector for quick application or tighten cable bolts with the connector for high stability during long operations.

CABLES

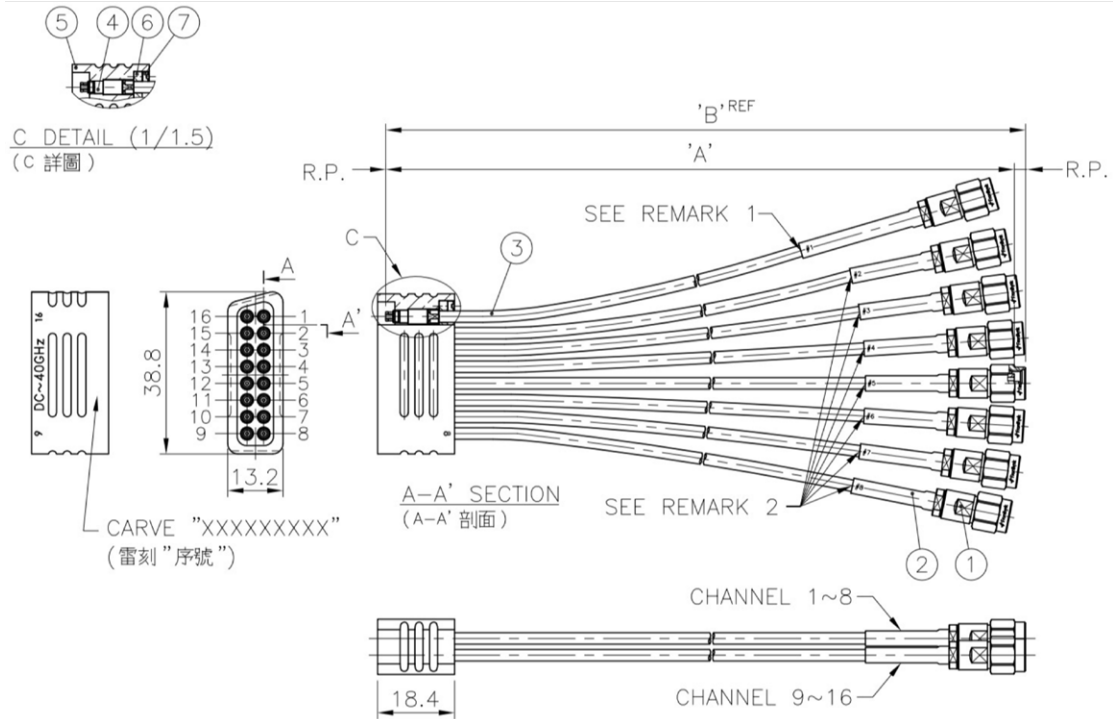
1x8 O-SMPM cable with screw



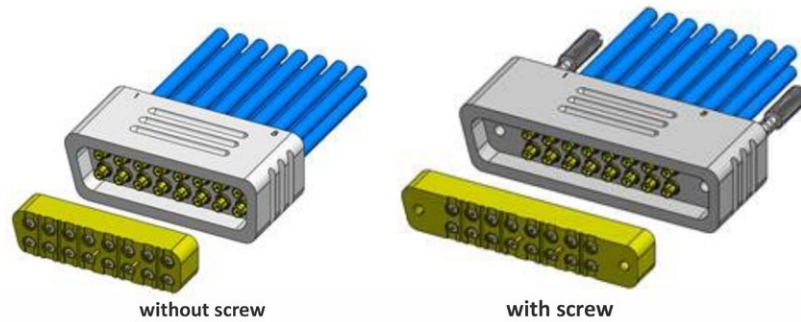
2x8 O-SMPM cable with screw



1x8 and 2x8 0-SMPM cable without screw



Cable and connector match



CABLE SPECIFICATIONS

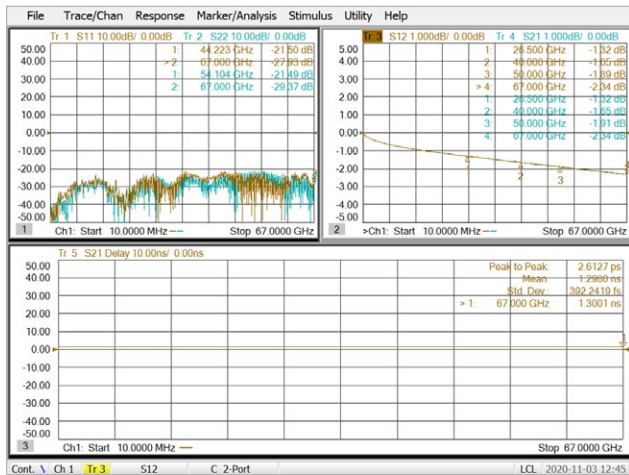
ELECTRICAL [2.92 mm/2.4 mm/1.85 mm]

Impedance	0 – 67 GHz		50 Ω
Return loss	2.92 mm	0 – 40 GHz	15 dB (max)
	2.4 mm	0 – 50 GHz	
	1.85 mm	0 – 67 GHz	
Insertion loss (15 cm)	2.92 mm	0 – 40 GHz	1.2 dB (max) 1.3 dB (max) 1.9 dB (max)
	2.4 mm	0 – 50 GHz	
	1.85 mm	0 – 67 GHz	
Velocity of propagation	0 – 67 GHz		80 % (nominal)

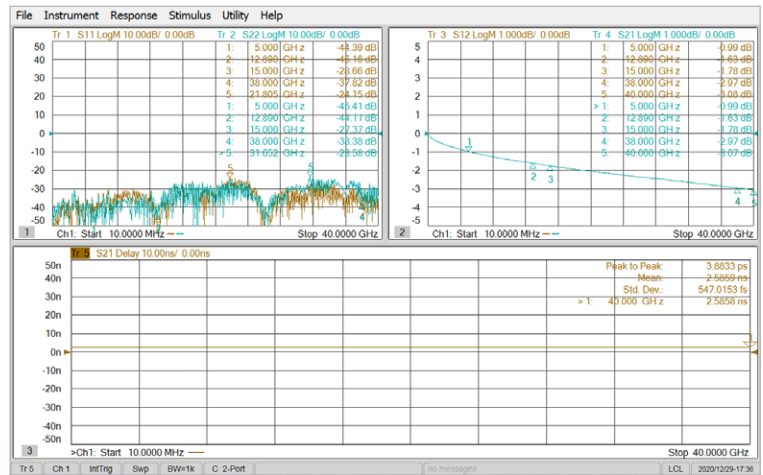
MECHANICAL

Outer diameter of cable	2.54 mm (nominal)
Min. bend radius static/single	15 mm
Typical flex cycles	10,000 cycles
Temperature range	–40 °C to 125 °C (–40 °F to 257 °F)

TYPICAL INSERTION LOSS AND RETURN LOSS

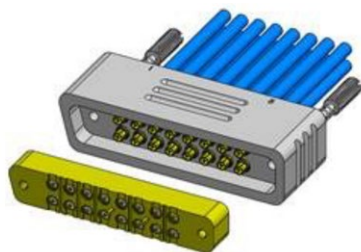


1.85 mm connector, 30 cm long

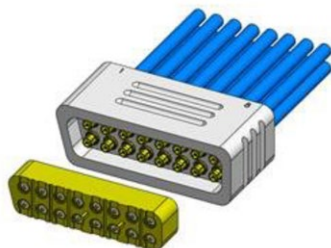


2.92 mm connector, 60 cm long

ORDERING INFORMATION

**1X8/2X8 O-SMPM CABLE WITH SCREW^{a, b, c}**

iCBOS-Km-7,15,30,60 iCBOS2-Km-7,15,30,60	40 GHz, 1x8/2x8 O-SMPM (with screw) to K (male) cable Typical insertion loss 0.7 dB (7 cm), 1.2 dB (15 cm), 1.7 dB (30 cm), 3.2 dB (60 cm)
iCBOS-Qm-7,15,30,60 iCBOS2-Qm-7,15,30,60	50 GHz, 1x8/2x8 O-SMPM (with screw) to 2.4 mm (male) cable Typical insertion loss 1.0 dB (7 cm), 1.3 dB (15 cm), 2.0 dB (30 cm), 3.5 dB (60 cm)
iCBOS-Vm-7,15,30,60 iCBOS2-Vm-7,15,30,60	67 GHz, 1x8/2x8 O-SMPM (with screw) to 1.85 mm (male) cable Typical insertion loss 1.4 dB (7 cm), 1.9 dB (15 cm), 2.5 dB (30 cm), 4.2 dB (60 cm)
iCBOS-SMPM-7,15,30,60 iCBOS2-SMPM-7,15,30,60	67 GHz, 1x8/2x8 O-SMPM (with screw) to SMPM cable Typical insertion loss 1.2 dB (7 cm), 1.9 dB (15 cm), 2.5 dB (30 cm), 4.2 dB (60 cm)
iCBOS-OS-20,30,60,80 iCBOS2-OS2-20,30,60,80	67 GHz, 1x8/2x8 O-SMPM (with screw) to 1x8/2x8 O-SMPM (with screw) cable Typical insertion loss 2.2 dB (20 cm), 2.5 dB (30 cm), 4.2 dB (60 cm), 5.4 dB (80 cm)
iCBOS2-S1X2-20,30,60,80	67 GHz, 2x8 O-SMPM (with screw) to dual 1x8 O-SMPM (with screw) cable Typical insertion loss 2.2 dB (20 cm), 2.5 dB (30 cm), 4.2 dB (60 cm), 5.4 dB (80 cm)

**1X8/2X8 O-SMPM CABLE WITHOUT SCREW^{a, b, c}**

iCBOSA-Km-7,15,30,60 iCBOSA2-Km-7,15,30,60	40 GHz, 1x8/2x8 O-SMPM (without screw) to K (male) cable Typical insertion loss 0.7 dB (7 cm), 1.2 dB (15 cm), 1.7 dB (30 cm), 3.2 dB (60 cm)
iCBOSA-Qm-7,15,30,60 iCBOSA2-Qm-7,15,30,60	50 GHz, 1x8/2x8 O-SMPM (without screw) to 2.4 mm (male) cable Typical insertion loss 1.0 dB (7 cm), 1.3 dB (15 cm), 2.0 dB (30 cm), 3.5 dB (60 cm)
iCBOSA-Vm-7,15,30,60 iCBOSA2-Vm-7,15,30,60	67 GHz, 1x8/2x8 O-SMPM (without screw) to 1.85 mm (male) cable Typical insertion loss 1.4 dB (7 cm), 1.9 dB (15 cm), 2.5 dB (30 cm), 4.2 dB (60 cm)
iCBOSA-SMPM-7,15,30,60 iCBOSA2-SMPM-7,15,30,60	67 GHz, 1x8/2x8 O-SMPM (without screw) to SMPM cable Typical insertion loss 1.2 dB (7 cm), 1.9 dB (15 cm), 2.5 dB (30 cm), 4.2 dB (60 cm)
iCBOSA-OSA-20,30,60,80 iCBOSA2-OSA2-20,30,60,80	67 GHz, 1x8/2x8 O-SMPM (without screw) to 1x8/2x8 O-SMPM (without screw) cable Typical insertion loss 2.2 dB (20 cm), 2.5 dB (30 cm), 4.2 dB (60 cm), 5.4 dB (80 cm)
iCBOSA2-S1X2-20,30,60,80	67 GHz, 2x8 O-SMPM (without screw) to dual 1x8 O-SMPM (with screw) cable Typical insertion loss 2.2 dB (20 cm), 2.5 dB (30 cm), 4.2 dB (60 cm), 5.4 dB (80 cm)

a. Female coaxial connectors available.

b. Other cable lengths available.

c. Return loss 15 dB.

CONNECTOR SPECIFICATIONS

1X8 CONNECTOR – ELECTRICAL

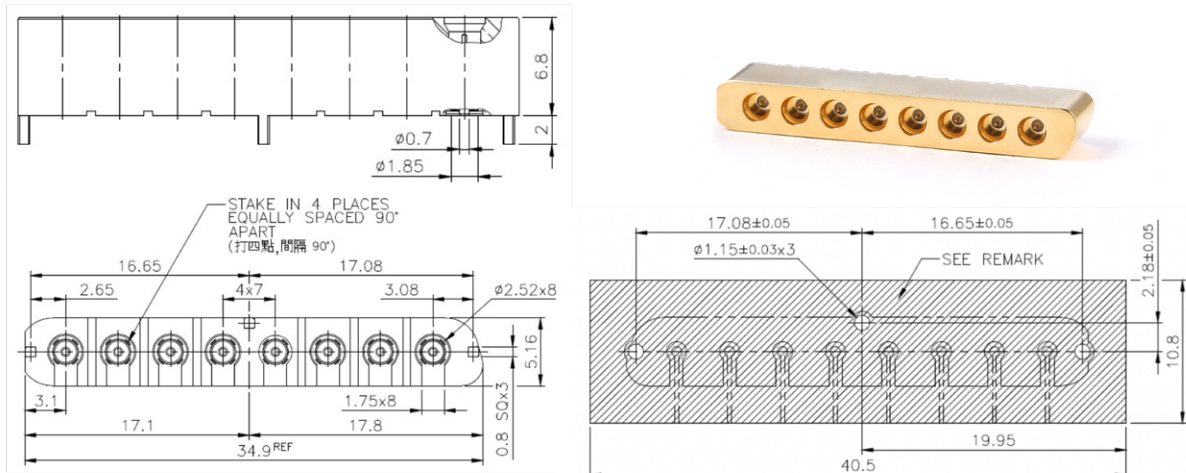
Impedance	0 – 67 GHz	50 Ω (nominal)
Return loss	0 – 67 GHz	15 dB (typical)
Insertion loss	0 – 67 GHz	0.2 dB (typical)

ORDERING INFORMATION

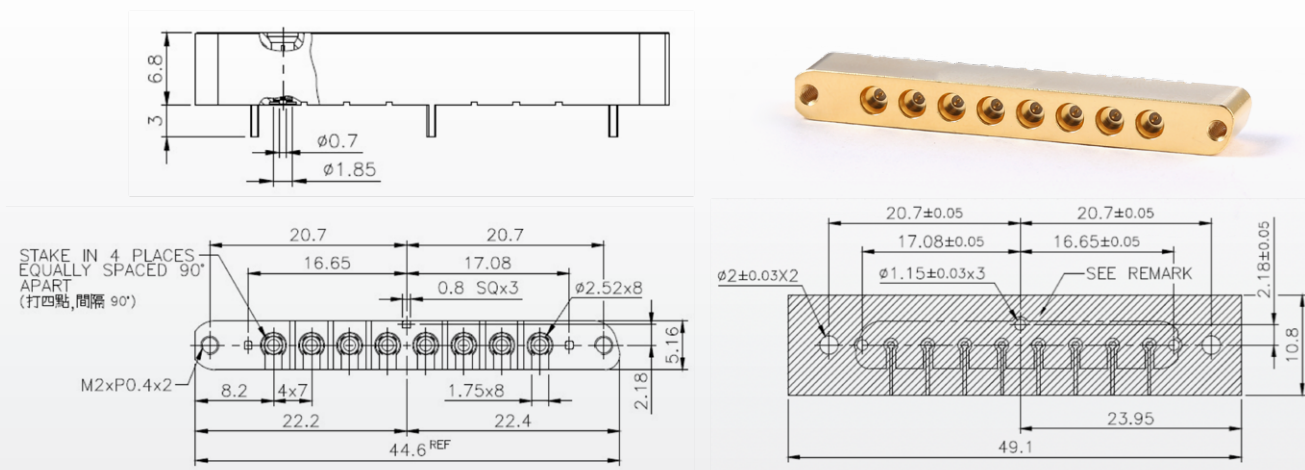
1X8 CONNECTOR

iCNOS8-A	67 GHz, 1x8 O-SMPM connector without screw
iCNOS8-B	67 GHz, 1x8 O-SMPM connector with screw

1x8 connector without screw (iCNOS8-A)



1x8 connector with screw (iCNOS8-B)



CONNECTOR SPECIFICATIONS

2X8 CONNECTOR – ELECTRICAL

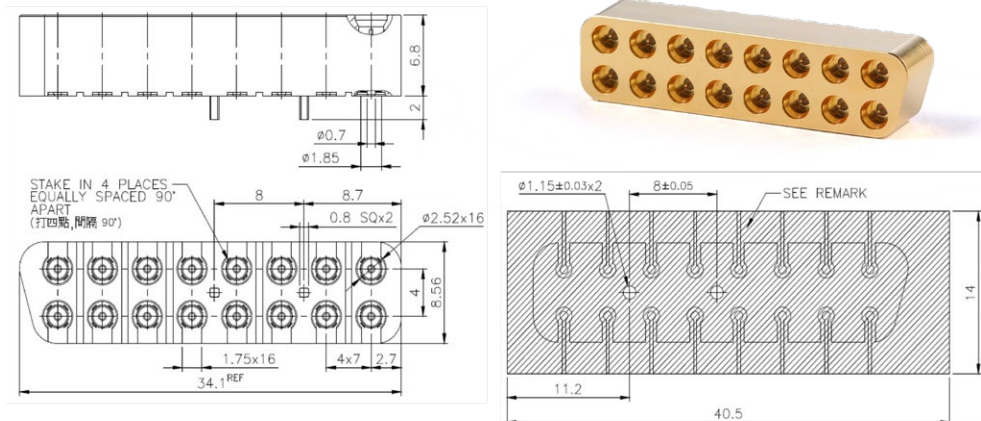
Impedance	0 – 67 GHz	50 Ω (nominal)
Return loss	0 – 67 GHz	15 dB (typical)
Insertion loss	0 – 67 GHz	0.2 dB (typical)

ORDERING INFORMATION

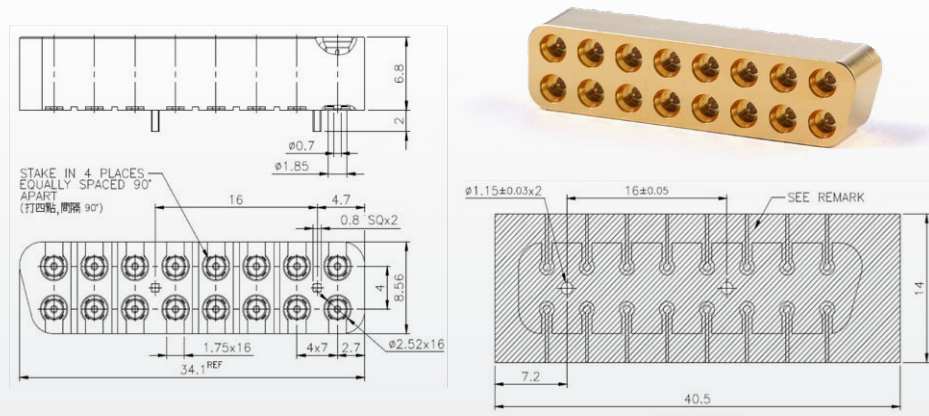
2X8 CONNECTOR

iCNOS16-A	67 GHz, 2x8 O-SMPM connector without screw (8 mm pin-to-pin)
iCNOS16-A2	67 GHz, 2x8 O-SMPM connector without screw (16 mm pin-to-pin)
iCNOS16-B	67 GHz, 2x8 O-SMPM connector with screw (8 mm pin-to-pin)

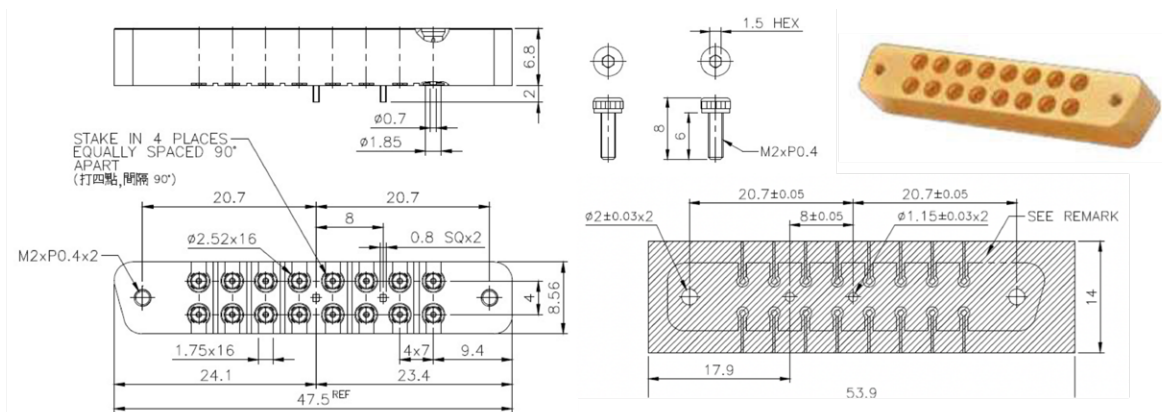
2x8 connector without screw (8 mm pin-to-pin) (iCNOS16-A)



2x8 connector without screw (16 mm pin-to-pin) (iCNOS16-A2)



2x8 connector with screw (iCNOS16-B)



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