

The output signal from a photomultiplier tube can be directly input to the C11184 and it provides a voltage output signal with 50 Ω load at a conversion factor of 1.25 mV/ μ A. It can be used as a wide bandwidth amplifier not only for a photomultiplier tube but also for other detectors, or simply as a wide bandwidth amplifier.

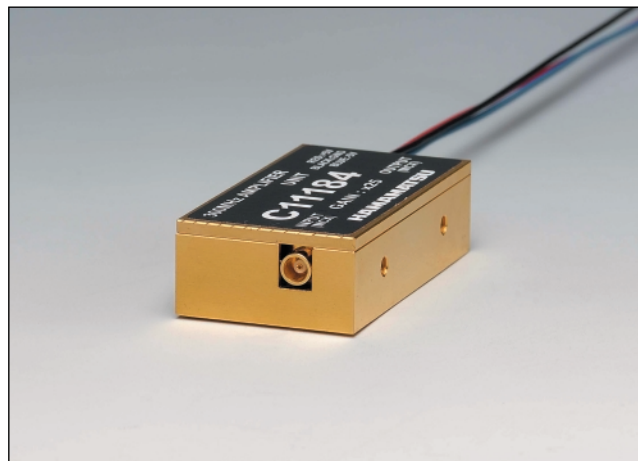
FEATURES

- Wide Bandwidth: DC to 300 MHz
- Current-to-voltage Conversion Factor:
1.25 mV / μ A at 50 Ω load resistance
- Rise Time: 1.2 ns (Typ.)
- Non-inverting Output
- Compact · Light Weight
- MCX Connector

SPECIFICATIONS

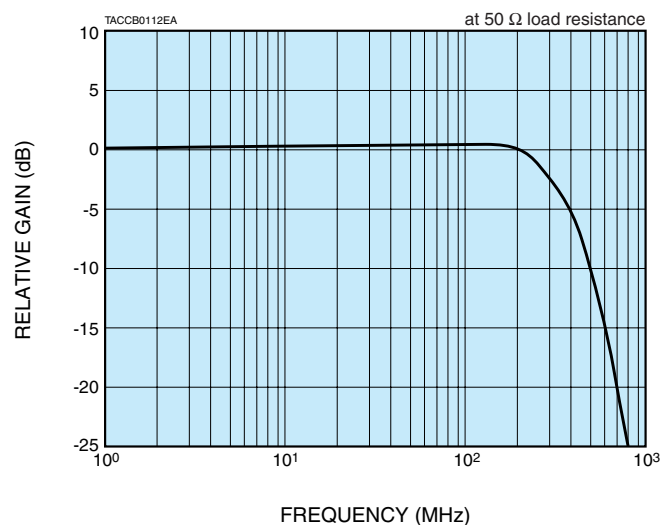
Parameter		Description / Value
Frequency Bandwidth (-3 dB)		DC to 300 MHz
Voltage Gain ^(A)		28 dB $\pm$ 2 dB (Approx. 25 times)
Current-to-voltage Conversion Factor	Load Resistance: 1 M Ω	2.5 mV/ μ A
	Load Resistance: 50 Ω	1.25 mV/ μ A
Rise Time	Typ.	1.2 ns
Input Polarity		Positive / Negative
Amplifying Method		Non-inverting Output
Input Impedance		50 Ω
Recommended Load Resistance		50 Ω
Maximum Output	Load Resistance: 1 M Ω	$\pm$ 2 V Min.
Signal Voltage	Load Resistance: 50 Ω	$\pm$ 1 V Min.
Output Noise Voltage ^(A)	Typ.	1 mV rms
Connector	Input	MCX-R ^(B)
	Output	MCX-R ^(B)
	Power	DIN (6-pin)
Power Supply Voltage		$\pm$ 5 V
Max. Power Supply Voltage		$\pm$ 6.5 V
Power Supply Current	Max.	$\pm$ 70 mA
Operating Temperature		0 $^{\circ}$ C to +40 $^{\circ}$ C
Storage Temperature		-15 $^{\circ}$ C to +60 $^{\circ}$ C
Weight		Approx. 40 g

NOTE: ^(A)Load Resistance: 50 Ω
^(B)MCX-BNC adapter is supplied



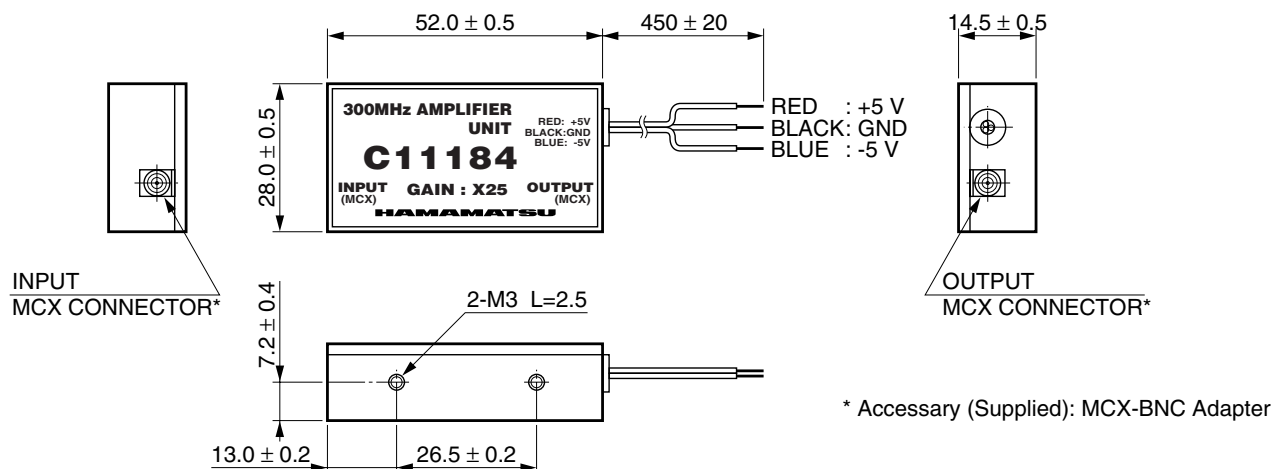
Accessory (Supplied): MCX-BNC Adapter (2pcs)

Figure 1: Typical Frequency Response

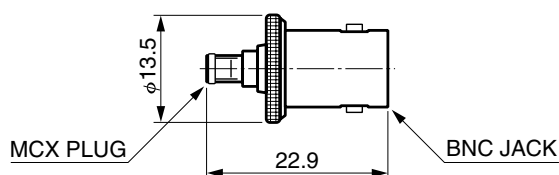


WIDE BANDWIDTH AMPLIFIER UNIT C11184

Figure 2: Dimensional Outlines (Unit: mm)



MCX-BNC Adapter (2 pcs) (SUPPLIED)



Please consult our sales office when there is on uncertain point about the connection terminal

TACCA0303EA

RELATED PRODUCTS

AMPLIFIER UNITS SELECTION GUIDE

Parameter	C7319	C9999	C6438	C6438-01	C9663	C11184	C5594
Frequency Bandwidth (-3 dB)	DC to 20 kHz or DC to 200 kHz (switchable)	DC to 10 MHz	DC to 50 MHz	DC to 50 MHz	DC to 150 MHz	DC to 300 MHz	50 kHz to 1.5 GHz
Current-to-Voltage Conversion Factor (Load Resistance: 50 Ω)	0.1 V/μA 1 V/μA, 10 V/μA (switchable)	50 mV/μA	0.5 mV/μA	25 mV/μA	4 mV/μA	1.25 mV/μA	3.15 mV/μA

Refer to the individual catalogs for detailed information.

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TACC1043E02
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