

TW4701 Series Solid State Power Amplifier



Order Code

TW4701

Features:

- Wide frequency range, 9kHz to 110GHz, max. 500W output power
- Open loop: Gain and Output can be adjusted with a step accuracy of 0.1dB
- Internal stability: with internal automatic level control circuits, the output can be fixed and stable
- Remote control: the parameter adjustment and function setting can be controlled by GPIB or LAN
- Display: display output, reflected power, internal temperature, operating frequency
- Standard 4U 19-inch or 5U or customized rack chassis

Maxwellon TW4701 series is a **Broadband Benchtop Solid State Power Amplifier** and incorporates the patented spatial power combination technology. It is designed to have features of broad bandwidth, high gain, high power, wide dynamic range, low spurious signals and extremely load tolerant. These features enable the amplifier to be used as a cable test instrument covering multiple frequency bands.

TW4701 X series is suitable for applications such as high power IC test, antenna testing, laboratory use, and electromagnetic compatibility/ electromagnetic interference test, as well as narrower band applications like radar, microwave imaging, and satellite communications etc.

Specifications

Standard Models	
TW4701 AD	<ul style="list-style-type: none"> • Frequency range: 9kHz to 250MHz • Gain: 54 dB • Past: 51 dBm • Input port: Type-N (f) • Output port: Type-N (f)
TW4701 AE	<ul style="list-style-type: none"> • Frequency range: 9 kHz to 250 MHz • Gain: 56 dB • Past: 53 dBm • Input port: Type-N (f) • Output port: Type-N (f)
TW4701 AH	<ul style="list-style-type: none"> • Frequency range: 80 MHz to 1 GHz • Gain: 54 dB • Past: 51 dBm • Input port: Type-N (f)

	<ul style="list-style-type: none"> • Output port: Type-N (f)
TW4701 AK	<ul style="list-style-type: none"> • Frequency range: 80 MHz to 1 GHz • Gain: 56 dB • Past: 53 dBm • Input port: Type-N (f) • Output port: Type-N (f)
TW4701 AA	<ul style="list-style-type: none"> • Frequency range: 1 GHz to 2.5 GHz • Gain: 53 dB • Past: 50 dBm • Input port: Type-N (f) • Output port: Type-N (f)
TW4701 AP	<ul style="list-style-type: none"> • Frequency range: 1 GHz to 2.5 GHz • Gain: 55 dB • Past: 52 dBm • Input port: Type-N (f) • Output port: Type-N (f)
TW4701 AB	<ul style="list-style-type: none"> • Frequency range: 1 GHz to 6 GHz • Gain: 48 dB • Past: 45 dBm • Input port: Type-N (f) • Output port: Type-N (f)
TW4701 AQ	<ul style="list-style-type: none"> • Frequency range: 2 GHz to 6 GHz • Gain: 53 dB • Past: 50 dBm • Input port: Type-N (f) • Output port: Type-N (f)
TW4701 AR	<ul style="list-style-type: none"> • Frequency range: 2 GHz to 6 GHz • Gain: 56 dB • Past: 53 dBm • Input port: Type-N (f) • Output port: Type-N (f)
TW4701 AS	<ul style="list-style-type: none"> • Frequency range: 500 MHz to 6 GHz • Gain: 50 dB • Past: 47 dBm • Input port: Type-N (f) • Output port: Type-N (f)
TW4701 AT	<ul style="list-style-type: none"> • Frequency range: 500 MHz to 6 GHz • Gain: 53 dB • Past: 50 dBm • Input port: Type-N (f) • Output port: Type-N (f)
TW4701 AU	<ul style="list-style-type: none"> • Frequency range: 500 MHz to 6 GHz • Gain: 56 dB • Past: 53 dBm

	<ul style="list-style-type: none"> • Input port: Type-N (f) • Output port: Type-N (f)
TW4701 DA	<ul style="list-style-type: none"> • Frequency range: 6 GHz to 18 GHz • Gain: 46 dB • Past: 43 dBm • Input port: Type-N (f) • Output port: Type-N (f)
TW4701 DB	<ul style="list-style-type: none"> • Frequency range: 6 GHz to 18 GHz • Gain: 50 dB • Past: 47 dBm • Input port: Type-N (f) • Output port: Type-N (f)
TW4701 DC	<ul style="list-style-type: none"> • Frequency range: 6 GHz to 18 GHz • Gain: 53 dB • Past: 50 dBm • Input port: Type-N (f) • Output port: Type-N (f)
TW4701 DD	<ul style="list-style-type: none"> • Frequency range: 6 GHz to 18 GHz • Gain: 56 dB • Past: 53 dBm • Input port: Type-N (f) • Output port: Type-N (f)
TW4701 DE	<ul style="list-style-type: none"> • Frequency range: 2 GHz to 18 GHz • Gain: 53 dB • Past: 50 dBm • Input port: Type-N (f) • Output port: Type-N (f)
TW4701 DK	<ul style="list-style-type: none"> • Frequency range: 6 GHz to 18 GHz • Gain: 50 dB • Past: 47 dBm • Input port: Type-N (f) • Output port: Type-N (f)
TW4701 DH	<ul style="list-style-type: none"> • Frequency range: 2 GHz to 18 GHz • Gain: 46 dB • Past: 43 dBm • Input port: Type-N (f) • Output port: Type-N (f)
TW4701 EA	<ul style="list-style-type: none"> • Frequency range: 18 GHz to 26.5 GHz • Gain: 43 dB • Past: 40 dBm • Input port: 3.5mm (m) • Output port: 3.5mm (m)
TW4701 FB	<ul style="list-style-type: none"> • Frequency range: 32 GHz to 40 GHz • Gain: 43 dB

	<ul style="list-style-type: none"> • Past: 40 dBm • Input port: 2.4mm (m) • Output port: 2.4mm (m)
TW4701 FC	<ul style="list-style-type: none"> • Frequency range: 24 GHz to 30 GHz • Gain: 46 dB • Past: 43 dBm • Input port: 2.4mm (m) • Output port: 2.4mm (m)
TW4701 FN	<ul style="list-style-type: none"> • Frequency range: 33 GHz to 37 GHz • Gain: 45 dB • Past: 45 dBm • Input port: 2.4mm (m) • Output port: WR28
TW4701 FD	<ul style="list-style-type: none"> • Frequency range: 37 GHz to 43 GHz • Gain: 46 dB • Past: 43 dBm • Input port: 2.4mm (m) • Output port: 2.4mm (m)
TW4701 FE	<ul style="list-style-type: none"> • Frequency range: 26 GHz to 40 GHz • Gain: 43 dB • Past: 40 dBm • Input port: 2.4mm (m) • Output port: 2.4mm (m)
TW4701 FF	<ul style="list-style-type: none"> • Frequency range: 26 GHz to 40 GHz • Gain: 49 dB • Past: 46 dBm • Input port: 2.4mm (m) • Output port: WR28
TW4701 FG	<ul style="list-style-type: none"> • Frequency range: 26 GHz to 40 GHz • Gain: 53 dB • Past: 50 dBm • Input port: 2.4mm (m) • Output port: WR28
TW4701 FP	<ul style="list-style-type: none"> • Frequency range: 18 GHz to 40 GHz • Gain: 46 dB • Past: 43 dBm • Input port: 2.4mm (m) • Output port: 24JS18000
TW4701 FQ	<ul style="list-style-type: none"> • Frequency range: 18 GHz to 40 GHz • Gain: 50 dB • Past: 47 dBm • Input port: 2.4mm (m) • Output port: 24JS18000
TW4701 FR	<ul style="list-style-type: none"> • Frequency range: 18 GHz to 40 GHz

	<ul style="list-style-type: none"> • Gain: 53 dB • Past: 50 dBm • Input port: 2.4mm (m) • Output port: 24JS18000
TW4701 FS	<ul style="list-style-type: none"> • Frequency range: 2 GHz to 40 GHz • Gain: 40 dB • Past: 37 dBm • Input port: 2.4mm (m) • Output port: 2.4mm (m)
TW4701 HA	<ul style="list-style-type: none"> • Frequency range: 40 GHz to 47 GHz • Gain: 40 dB • Past: 37 dBm • Input port: 2.4mm (m) • Output port: 2.4mm (m)
TW4701 LA	<ul style="list-style-type: none"> • Frequency range: 40 GHz to 60 GHz • Gain: 36 dB • Past: 33 dBm • Input port: 1.85mm (m) • Output port: 1.85mm (m)
More Versions	
TW4701 AB-020	<ul style="list-style-type: none"> • Frequency range: 500 MHz to 6 GHz • Output power: 20 W • Output port: Type-N (f)
TW4701 AB-040	<ul style="list-style-type: none"> • Frequency range: 500 MHz to 6 GHz • Output power: 40 W • Output port: Type-N (f)
TW4701 AB-060	<ul style="list-style-type: none"> • Frequency range: 500 MHz to 6 GHz • Output power: 60 W • Output port: Type-N (f)
TW4701 AB-080	<ul style="list-style-type: none"> • Frequency range: 500 MHz to 6 GHz • Output power: 80 W • Output port: Type-N (f)
TW4701 AT-150	<ul style="list-style-type: none"> • Frequency range: 500 MHz to 6 GHz • Output power: 150 W • Output port: Type-N (f)
TW4701 AT-200	<ul style="list-style-type: none"> • Frequency range: 800 MHz to 4.2 GHz • Output power: 200 W • Output port: Type-N (f)
TW4701 AT-250	<ul style="list-style-type: none"> • Frequency range: 800 MHz to 3 GHz • Output power: 250 W • Output port: Type-N (f)
TW4701 AT-300	<ul style="list-style-type: none"> • Frequency range: 2.1 GHz to 2.7 GHz • Output power: 300 W

	<ul style="list-style-type: none"> • Output port: Type-N (f)
TW4701 AU-250	<ul style="list-style-type: none"> • Frequency range: 500 MHz to 6 GHz • Output power: 250 W • Output port: Type-N (f)
TW4701 AU-300	<ul style="list-style-type: none"> • Frequency range: 500 MHz to 3 GHz • Output power: 300 W • Output port: Type-N (f)
TW4701 AU-350	<ul style="list-style-type: none"> • Frequency range: 500 MHz to 3 GHz • Output power: 350 W • Output port: Type-N (f)
TW4701 AU-400	<ul style="list-style-type: none"> • Frequency range: 500 MHz to 3 GHz • Output power: 400 W • Output port: Type-N (f)
TW4701 AU-450	<ul style="list-style-type: none"> • Frequency range: 500 MHz to 3 GHz • Output power: 450 W • Output port: Type-N (f)
TW4701 AU-3001	<ul style="list-style-type: none"> • Frequency range: 800 MHz to 4.2 GHz • Output power: 300 W • Output port: Type-N (f)
TW4701 AU-4001	<ul style="list-style-type: none"> • Frequency range: 800 MHz to 4.2 GHz • Output power: 400 W • Output port: Type-N (f)
TW4701 AU-500	<ul style="list-style-type: none"> • Frequency range: 2.1 GHz to 2.7 GHz • Output power: 500 W • Output port: Type-N (f)
TW4701 DA-040	<ul style="list-style-type: none"> • Frequency range: 6 GHz to 18 GHz • Output power: 40 W • Output port: Type-N (f)
TW4701 DB-060	<ul style="list-style-type: none"> • Frequency range: 6 GHz to 18 GHz • Output power: 60 W • Output port: Type-N (f)
TW4701 DB-080	<ul style="list-style-type: none"> • Frequency range: 6 GHz to 18 GHz • Output power: 80 W • Output port: Type-N (f)
TW4701 DC-150	<ul style="list-style-type: none"> • Frequency range: 6 GHz to 18 GHz • Output power: 150 W • Output port: Type-N (f)
TW4701 DH-005	<ul style="list-style-type: none"> • Frequency range: 2 GHz to 18 GHz • Output power: 5 W • Output port: Type-N (f)
TW4701 DH-010	<ul style="list-style-type: none"> • Frequency range: 2 GHz to 18 GHz • Output power: 10 W • Output port: Type-N (f)

TW4701 DK-080	<ul style="list-style-type: none"> • Frequency range: 2 GHz to 18 GHz • Output power: 80 W • Output port: Type-N (f)
TW4701 EB-040	<ul style="list-style-type: none"> • Frequency range: 18 GHz to 26.5 GHz • Output power: 40 W • Output port: WR42
TW4701 EB-060	<ul style="list-style-type: none"> • Frequency range: 18 GHz to 26.5 GHz • Output power: 60 W • Output port: WR42
TW4701 EB-080	<ul style="list-style-type: none"> • Frequency range: 18 GHz to 26.5 GHz • Output power: 80 W • Output port: WR42
TW4701 EC-120	<ul style="list-style-type: none"> • Frequency range: 18 GHz to 26.5 GHz • Output power: 120 W • Output port: WR42
TW4701 EC-150	<ul style="list-style-type: none"> • Frequency range: 18 GHz to 26.5 GHz • Output power: 150 W • Output port: WR42
TW4701 EC-200	<ul style="list-style-type: none"> • Frequency range: 18 GHz to 26.5 GHz • Output power: 200 W • Output port: WR42
TW4701 FN-050	<ul style="list-style-type: none"> • Frequency range: 33 GHz to 37 GHz • Output power: 50 W • Output port: WR28
TW4701 FE-020	<ul style="list-style-type: none"> • Frequency range: 26 GHz to 40 GHz • Output power: 20 W • Output port: WR28
TW4701 FF-060	<ul style="list-style-type: none"> • Frequency range: 26 GHz to 40 GHz • Output power: 60 W • Output port: WR28
TW4701 FF-080	<ul style="list-style-type: none"> • Frequency range: 26 GHz to 40 GHz • Output power: 80 W • Output port: WR28
TW4701 FG-150	<ul style="list-style-type: none"> • Frequency range: 26 GHz to 40 GHz • Output power: 150 W • Output port: WR28
TW4701 FP-005	<ul style="list-style-type: none"> • Frequency range: 18 GHz to 40 GHz • Output power: 5 W • Output port: 24JS18000
TW4701 FP-010	<ul style="list-style-type: none"> • Frequency range: 18 GHz to 40 GHz • Output power: 10 W • Output port: 24JS18000
TW4701 FQ-060	<ul style="list-style-type: none"> • Frequency range: 18 GHz to 40 GHz

	<ul style="list-style-type: none"> • Output power: 60 W • Output port: 24JS18000
TW4701 FQ-080	<ul style="list-style-type: none"> • Frequency range: 18 GHz to 40 GHz • Output power: 80 W • Output port: 24JS18000
TW4701 LA-005	<ul style="list-style-type: none"> • Frequency range: 40 GHz to 60 GHz • Output power: 5 W • Output port: 1.85mm(m)

Ordering Information

Part No.	Name	Description
TW4701 AD	Solid State Power Amplifier	9kHz - 250MHz, 54dB
TW4701 AE	Solid State Power Amplifier	9kHz - 250MHz, 56dB
TW4701 AH	Solid State Power Amplifier	80MHz - 1GHz, 54dB
TW4701 AK	Solid State Power Amplifier	80MHz - 1GHz, 56dB
TW4701 AA	Solid State Power Amplifier	1GHz - 2.5GHz, 53dB
TW4701 AP	Solid State Power Amplifier	1GHz - 2.5GHz, 55dB
TW4701 AB	Solid State Power Amplifier	1GHz - 6GHz, 48dB
TW4701 AQ	Solid State Power Amplifier	2GHz - 6GHz, 53dB
TW4701 AR	Solid State Power Amplifier	2GHz - 6GHz, 56dB
TW4701 AS	Solid State Power Amplifier	500MHz - 6GHz, 50dB
TW4701 AT	Solid State Power Amplifier	500MHz - 6GHz, 53dB
TW4701 AU	Solid State Power Amplifier	500MHz - 6GHz, 56dB
TW4701 DA	Solid State Power Amplifier	6GHz - 18GHz, 46dB
TW4701 DB	Solid State Power Amplifier	6GHz - 18GHz, 50dB
TW4701 DC	Solid State Power Amplifier	6GHz - 18GHz, 53dB
TW4701 DD	Solid State Power Amplifier	6GHz - 18GHz, 56dB
TW4701 DE	Solid State Power Amplifier	2GHz - 18GHz, 53dB
TW4701 DK	Solid State Power Amplifier	2GHz - 18GHz, 50dB
TW4701 DH	Solid State Power Amplifier	2GHz - 18GHz, 46dB
TW4701 EA	Solid State Power Amplifier	18GHz - 26.5GHz, 43dB
TW4701 EB	Solid State Power Amplifier	18GHz - 26.5GHz, 46dB
TW4701 EC	Solid State Power Amplifier	18GHz - 26.5GHz, 53dB
TW4701 FA	Solid State Power Amplifier	26GHz - 32GHz, 43dB
TW4701 FB	Solid State Power Amplifier	32GHz - 40GHz, 43dB
TW4701 FC	Solid State Power Amplifier	24GHz - 30GHz, 46dB
TW4701 FN	Solid State Power Amplifier	33GHz - 37GHz, 45dB
TW4701 FD	Solid State Power Amplifier	37GHz - 43GHz, 46dB
TW4701 FE	Solid State Power Amplifier	26GHz - 40GHz, 43dB
TW4701 FF	Solid State Power Amplifier	26GHz - 40GHz, 49dB
TW4701 FG	Solid State Power Amplifier	26GHz - 40GHz, 53dB
TW4701 FP	Solid State Power Amplifier	18GHz - 40GHz, 46dB

TW4701 FQ	Solid State Power Amplifier	18GHz - 40GHz, 50dB
TW4701 FR	Solid State Power Amplifier	18GHz - 40GHz, 53dB
TW4701 FS	Solid State Power Amplifier	2GHz - 40GHz, 40dB
TW4701 HA	Solid State Power Amplifier	40GHz - 47GHz, 40dB
TW4701 LA	Solid State Power Amplifier	40GHz - 60GHz, 36dB

More Versions

Part No.	Name	Description
TW4701 AB-020	Solid State Power Amplifier	500MHz - 6GHz, 20W
TW4701 AB-040	Solid State Power Amplifier	500MHz - 6GHz, 40W
TW4701 AS-060	Solid State Power Amplifier	500MHz - 6GHz, 60W
TW4701 AS-080	Solid State Power Amplifier	500MHz - 6GHz, 80W
TW4701 AT-150	Solid State Power Amplifier	500MHz - 6GHz, 150W
TW4701 AT-200	Solid State Power Amplifier	800MHz - 4.2GHz, 200W
TW4701 AT-250	Solid State Power Amplifier	800MHz - 3GHz, 250W
TW4701 AT-300	Solid State Power Amplifier	2.1GHz - 2.7GHz, 300W
TW4701 AU-250	Solid State Power Amplifier	500MHz - 6GHz, 250W
TW4701 AU-300	Solid State Power Amplifier	500MHz - 3GHz, 300W
TW4701 AU-350	Solid State Power Amplifier	500MHz - 3GHz, 350W
TW4701 AU-400	Solid State Power Amplifier	500MHz - 3GHz, 400W
TW4701 AU-450	Solid State Power Amplifier	500MHz - 3GHz, 450W
TW4701 AU-3001	Solid State Power Amplifier	800MHz - 4.2GHz, 300W
TW4701 AU-4001	Solid State Power Amplifier	800MHz - 4.2GHz, 400W
TW4701 AU-500	Solid State Power Amplifier	2.1GHz - 2.7GHz, 500W
TW4701 DA-040	Solid State Power Amplifier	6GHz - 18GHz, 40W
TW4701 DB-060	Solid State Power Amplifier	6GHz - 18GHz, 60W
TW4701 DB-060	Solid State Power Amplifier	6GHz - 18GHz, 80W
TW4701 DB-080	Solid State Power Amplifier	6GHz - 18GHz, 80W
TW4701 DC-150	Solid State Power Amplifier	6GHz - 18GHz, 150W
TW4701 DH-005	Solid State Power Amplifier	2GHz - 18GHz, 5W
TW4701 DH-010	Solid State Power Amplifier	2GHz - 18GHz, 10W
TW4701 DK-080	Solid State Power Amplifier	2GHz - 18GHz, 80W
TW4701 EB-040	Solid State Power Amplifier	18GHz - 26.5GHz, 40W
TW4701 EB-060	Solid State Power Amplifier	18GHz - 26.5GHz, 60W
TW4701 EB-080	Solid State Power Amplifier	18GHz - 26.5GHz, 80W
TW4701 EC-120	Solid State Power Amplifier	18GHz - 26.5GHz, 120W
TW4701 EC-150	Solid State Power Amplifier	18GHz - 26.5GHz, 150W
TW4701 EC-200	Solid State Power Amplifier	18GHz - 26.5GHz, 200W
TW4701 FN-050	Solid State Power Amplifier	33GHz - 37GHz, 50W
TW4701 FE-020	Solid State Power Amplifier	26GHz - 40GHz, 20W
TW4701 FF-060	Solid State Power Amplifier	26GHz - 40GHz, 60W
TW4701 FF-080	Solid State Power Amplifier	26GHz - 40GHz, 80W

TW4701 FG-150	Solid State Power Amplifier	26GHz - 40GHz, 150W
TW4701 FP-005	Solid State Power Amplifier	18GHz - 40GHz, 5W
TW4701 FP-010	Solid State Power Amplifier	18GHz - 40GHz, 10W
TW4701 FQ-060	Solid State Power Amplifier	18GHz - 40GHz, 60W
TW4701 FQ-080	Solid State Power Amplifier	18GHz - 40GHz, 80W
TW4701 LA-005	Solid State Power Amplifier	40GHz - 60GHz, 5W

Please visit **NEW** web site!

<http://www.maxwellon.com>

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