

RACK-MOUNTED

Adapter Patch Panel

ZT-96KFFL-KF50+



50Ω DC to 40 GHz 2.92mm Female

THE BIG DEAL

- Convenient panel-mounted design
- Excellent VSWR
- Flat frequency response

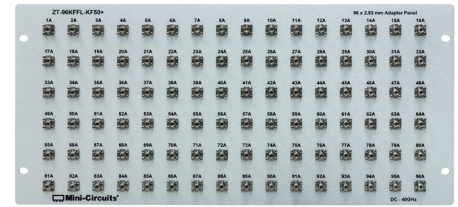
APPLICATIONS

- Production test set-ups
- Simplification of cable runs
- Interconnection of RF cables & equipment

PRODUCT OVERVIEW

Mini-Circuits panel-mounted structures provide clean, organized management of cable runs and connections in complex, high-volume test setups. Multiple connector adapters, power splitters, directional couplers and other essential RF components and test accessories can be integrated efficiently within the test system. Custom configurations are available upon request.

ZT-96KFFL-KF50+ is a 5U height patch panel incorporating 96 high quality connector adapters, with 2.92 mm female connectors on the front and rear of the panel.



Generic photo used for illustration purposes only

| | |
|------------|-----------------|
| Model No. | ZT-96KFFL-KF50+ |
| Case Style | YF2661 |
| Connectors | 2.92mm Female |

RoHS Compliant

See our website for RoHS Compliance methodologies and qualifications

ELECTRICAL SPECIFICATIONS AT 25°C

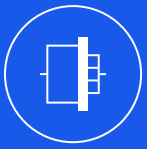
| Parameter | Frequency (GHz) | Min. | Typ. | Max. | Unit |
|----------------|-----------------|------|------|------|------|
| Frequency | - | DC | - | 40 | GHz |
| Insertion Loss | DC - 40 | - | 0.15 | 0.6 | dB |
| VSWR | DC - 40 | - | - | 1.15 | :1 |

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

| | | | | | |
|---------------|---|---------------|---|-------------|--|
| Dimensions | 19" (W) x 5U (H) | | | | |
| Case Style | YF2661 | | | | |
| Case Material | Aluminum (with protective coating to prevent corrosion) | | | | |
| RF Connectors | Face | Connector | Quantity | Port Labels | |
| | Front | 2.92mm Female | 96 | 1A-96A | |
| | Rear | 2.92mm Female | 96 | 1B-96B | |
| Panel Marking | Front Panel | | Rear Panel | | |
| | ZT-96KFFL-KF50+ 96 x 2.92 mm Adapter Panel DC-40 GHz | | <ul style="list-style-type: none"> • CE / EAC / UKCA • Serial number / date code / model name | | |
| Panel Items | <ul style="list-style-type: none"> • Carry handles | | | | |
| Temperature | Operating: 0 to +50 °C | | | | |

REV. B
ECO-017641
ZT-96KFFL-KF50+
MCL NY
230509





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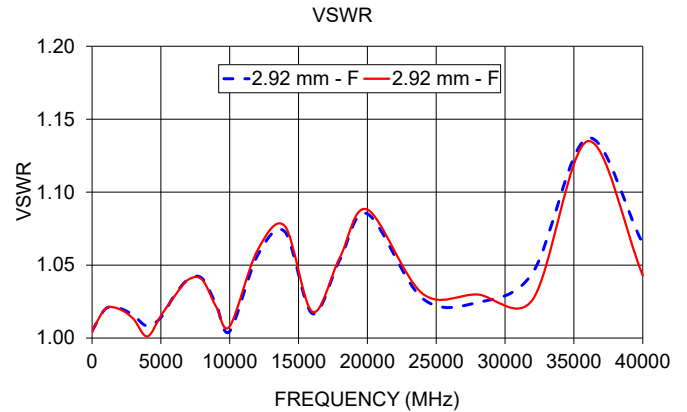
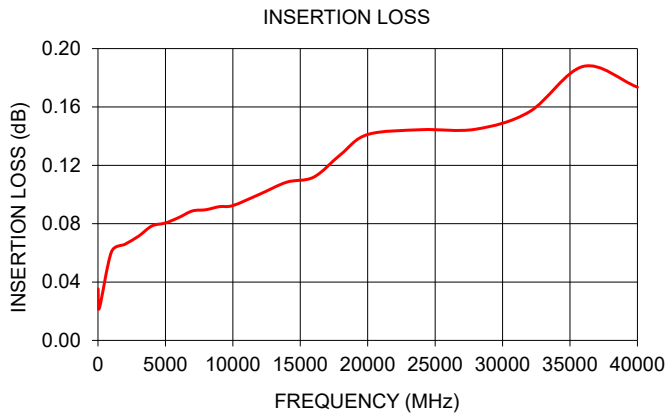
ZT-96KFFL-KF50+

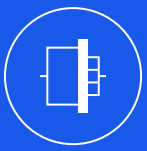
Mini-Circuits

50Ω DC to 40 GHz 2.92mm Female

TYPICAL PERFORMANCE CURVES

| Frequency (MHz) | Insertion Loss (dB) | VSWR (:1) | |
|-----------------|---------------------|---------------|---------------|
| | | 2.92mm Female | 2.92mm Female |
| 10 | 0.04 | 1.00 | 1.00 |
| 100 | 0.02 | 1.01 | 1.01 |
| 1000 | 0.06 | 1.02 | 1.02 |
| 2000 | 0.07 | 1.02 | 1.02 |
| 3000 | 0.07 | 1.02 | 1.01 |
| 4000 | 0.08 | 1.01 | 1.00 |
| 5000 | 0.08 | 1.01 | 1.02 |
| 6000 | 0.08 | 1.03 | 1.03 |
| 7000 | 0.09 | 1.04 | 1.04 |
| 8000 | 0.09 | 1.04 | 1.04 |
| 9000 | 0.09 | 1.02 | 1.02 |
| 10000 | 0.09 | 1.00 | 1.01 |
| 12000 | 0.10 | 1.06 | 1.06 |
| 14000 | 0.11 | 1.07 | 1.08 |
| 16000 | 0.11 | 1.02 | 1.02 |
| 18000 | 0.13 | 1.05 | 1.06 |
| 20000 | 0.14 | 1.09 | 1.09 |
| 24000 | 0.14 | 1.03 | 1.03 |
| 28000 | 0.14 | 1.02 | 1.03 |
| 32000 | 0.16 | 1.04 | 1.03 |
| 36000 | 0.19 | 1.14 | 1.13 |
| 40000 | 0.17 | 1.06 | 1.04 |





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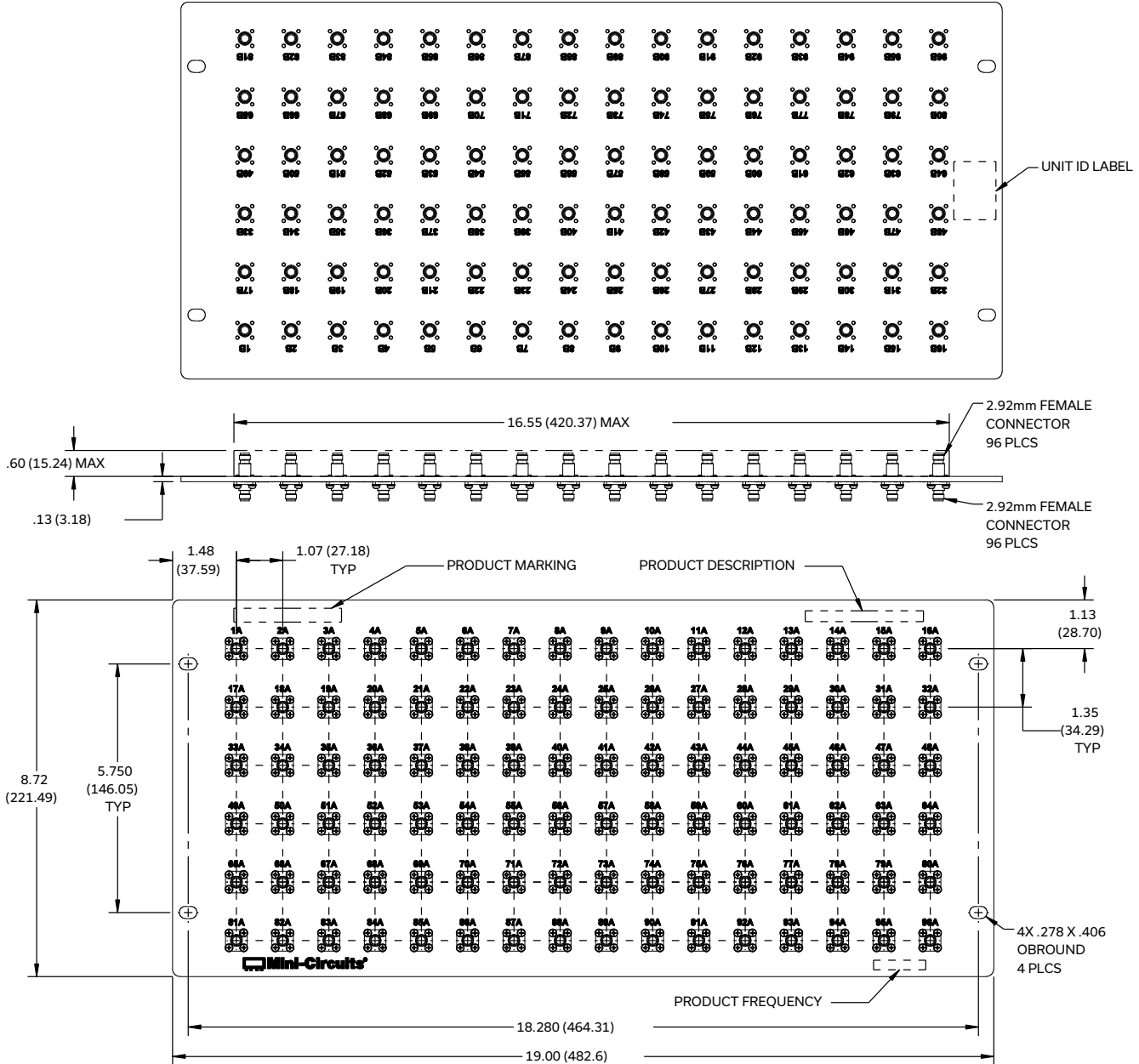
Adapter Patch Panel

ZT-96KFFL-KF50+



50Ω DC to 40 GHz 2.92mm Female

OUTLINE DRAWING



1. Case material: Aluminum (with protective coating to prevent corrosion).
2. Dimensions are in inches (mm). Tolerances: 2 Pl.±.03 inch; 3 Pl.±.015 inch.
3. Weight: 1560 grams.
4. Marking may contain other features or characters for internal lot control.






Adapter Patch Panel **ZT-96KFFL-KF50+**

50Ω DC to 40 GHz 2.92mm Female

ORDERING INFORMATION

To learn more, click here: [ZT-96KFFL-KF50+](#)

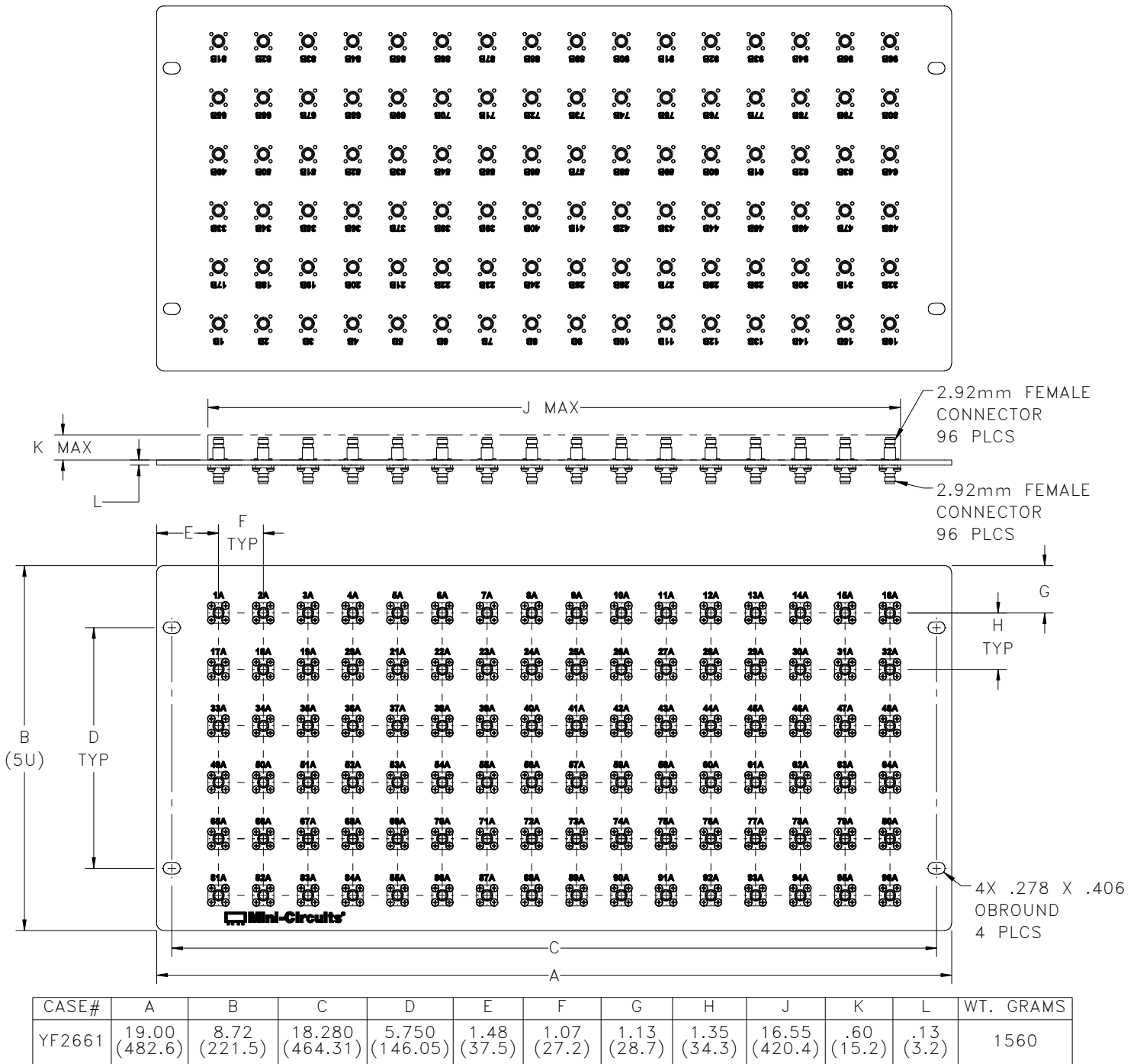
| Model | Description |
|-----------------|---|
| ZT-96KFFL-KF50+ | 96 x 2.92 mm Female to Female Adapter Patch Panel |

| Included Accessories | Part No. | Description |
|---|----------|-------------------------|
|  | HT-4-SMA | SMA Cable Wrench (4 in) |

- NOTES**
- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
 - B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
 - C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the standard terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/terms/viewterm.html

Outline Dimensions

YF2661



Dimensions are in inches (mm). Tolerances: 2 Pl. $\pm .03$; 3 Pl. $\pm .015$

Notes:

1. Case material: Aluminum alloy.
2. Finish: For Case- Clear Chemical conversion coating.



P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 For detailed performance specs & shopping online see Mini-Circuits web site



The Design Engineers Search Engine Provides ACTUAL Data Instantly From MINI-CIRCUITS At: www.minicircuits.com

RF/IF MICROWAVE COMPONENTS



Environmental Specifications **ENV55**

All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

| Specification | Test/Inspection Condition | Reference/Spec |
|--------------------------------|--------------------------------------|-----------------------------|
| Operating Temperature | -0° to 50° C Ambient Environment | Individual Model Data Sheet |
| Storage Temperature | -20° to 60° C Ambient Environment | Individual Model Data Sheet |
| Operating and Storage Humidity | 5% to 85% RH (non-condensing) | Ambient |
| Bench Handling Test | Bench Top Tip 45° & Drop | MIL-PRF-28800F |
| Transit Drop Test | Free Fall Drop, 20 cm (7.9 inches) | MIL-PRF-28800F Class 3 |