

# FML12X085-SHMPA1N



Flex Max® FM332 Broadband Line Extender, 1.2 GHz GaN output w/38 dB Gain, 85-102 MHz Bandpass split, 27 dB Upstream gain, RF module only, 60-90 Vac Powering

- \*Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117- 58, §§ 70901-70953), or is the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.
- Supports 1.2 GHz Downstream and 204 MHz Upstream bandpass for DOCSIS® 3.1 migration
- Increased gain to allow drop in upgrades for ≥ 750 MHz spacing
- Modular RF Electronics package with upgradable frequency split options
- Mechanically compatible with legacy E7/FM330/FM331 amplifier housings
- QAM and Analog ADU options for automatic level control and gain hold in the event of pilot loss

## Product Classification

|                         |   |
|-------------------------|---|
| Regional Availability   | Asia   Australia/New Zealand   EMEA   Latin America   North America |
| Product Type            | RF line extender  |
| Product Series          | FM332   |
| Government Requirements | Build America Buy America (BABA) compliant*                         |

## General Specifications

|                           |   |
|---------------------------|---|
| Technology                | 1.2 GHz GaN output w/38 dB gain         |
| Housing                   | Electronic Module only                  |
| Location of Manufacturing | Waived per BABA waiver for BEAD Program |

## Dimensions

|        |                     |
|--------|---------------------|
| Width  | 243.84 mm   9.6 in  |
| Depth  | 88.9 mm   3.5 in    |
| Length | 312.42 mm   12.3 in |

## Electrical Specifications

|                         |            |
|-------------------------|------------|
| Upstream Gain           | 27 dB      |
| Bandpass Split          | 85/102 MHz |
| Input Voltage Range, ac | 60–90 V    |

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|                 |                       |
|-----------------|-----------------------|
| Level Control   | 711.00 MHz QAM ALC    |
| Reference Slope | 11.9 dB (54-1218 MHz) |

## Ordering Tree

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F | M | L | 1 | 2 | X | 0 | 8 | 5 | — | S | H | M | P | R | 1 | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

| Key   | Technology                      |
|-------|---------------------------------|
| FML12 | 1.2 GHz GaN Output w/38 dB Gain |

| Key | Reference Slope       |
|-----|-----------------------|
| X   | 11.9 dB (54–1218 MHz) |

| Key | Bandpass Split |
|-----|----------------|
| 042 | 42/54 MHz      |
| 085 | 85/102 MHz     |
| 204 | 204/258 MHz    |

| Key | Level Control              |
|-----|----------------------------|
| X   | Manual Level Control (MLC) |
| A   | 499.25 MHz ALC             |
| Q   | 609.00 MHz QAM ALC         |
| S   | 711.00 MHz QAM ALC         |

| Key | Upstream Gain |
|-----|---------------|
| H   | 27 dB         |

| Key | Output Configuration        |
|-----|-----------------------------|
| M   | -20 dB Internal Test Points |

| Key | Powering                             |
|-----|--------------------------------------|
| P   | 1.0 A, 60-90V, 50/60 Hz power supply |

| Key | Housing                             |
|-----|-------------------------------------|
| A   | None (RF Module Only)               |
| R   | 2 Port FlexMax Internal Test Points |

| Key | Housing Finish |
|-----|----------------|
| 1   | Standard       |

| Key | Options |
|-----|---------|
| N   | N/A     |

## Environmental Specifications

|                       |                                      |
|-----------------------|--------------------------------------|
| Operating Temperature | -40 °C to +60 °C (-40 °F to +140 °F) |
|-----------------------|--------------------------------------|

## Packaging and Weights

|             |                 |
|-------------|-----------------|
| Weight, net | 4.082 kg   9 lb |
|-------------|-----------------|

## Regulatory Compliance/Certifications

| Agency     | Classification                    |
|------------|-----------------------------------|
| CHINA-ROHS | Above maximum concentration value |
| ROHS       | Compliant/Exempted                |
| UK-ROHS    | Compliant/Exempted                |

