

## MIC47050-1.2YML-TRVAO Information

| Contraction and the second sec | Part Number  | MIC47050-1.2YML-TRVAO   |      |
|--|--------------|---|------|
|  | Manufacturer | Microchip Technology  |      |
|  | Category     | Integrated Circuits (ICs)<br>PMIC - Voltage Regulators - Linear           |      |
|  | Description  | LOW VIN SINGLE 500MA LDO  | - 報  |
|  | Package      | 6-VDFN Exposed Pad, 6-MLF®  | - 26 |
|  |              | For the pricing/inventory/lead time, please contact                       |      |
| For Reference Only   |              | us<br>Website: https://www.heisener.com<br>E-mail: salesdept@heisener.com | Rec  |



Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.



quest a Quote

# MIC47050-1.2YML-TRVAO Specifications

| ManufacturerMicrochip TechnologyCategoryIntegrated Circuits (ICs)Package6-VDFN Exposed Pad, 6-MLF®Package6-VDFN Exposed Pad, 6-MLF®SeriesAutomotive, AEC-Q100Output ConfigurationPositiveOutput TypeFixedNumber of Regulators1Voltage - Input (Max)3.6VVoltage - Output (Max)-Voltage Output (Max)0.12V @ 500mACurrent - Output500mACurrent - Output15µACurrent - Supply (Max)-SerRR50dB ~ 37dB (10kHz ~ 100kHz)Control FeaturesOver Temperature, Under Voltage Lockout (UVLO)Operating Temperature40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed Pad, 6-MLF®  |                              |  |
|---|------------------------------|--|
| CategoryIntegrated Circuits (Cs)PMIC - Voltage Regulators - LinearPackage6-VDFN Exposed Pad, 6-MLF@SeriesAutomotive, AEC-Q100Output ConfigurationPositiveOutput ConfigurationPositiveOutput TypeFixedNumber of Regulators1Voltage - Input (Max)3.6VVoltage - Output (Min/Fixed)1.2VVoltage - Output (Max)-Voltage Dropout (Max)0.12V @ 500mACurrent - Output500mACurrent - Quiescent (Iq)15µACurrent - Supply (Max)-PSRR50dB ~ 37dB (10kHz ~ 100kHz)Control FeaturesOver Temperature, Under Voltage Lockout (UVLO)Operating Temperature40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed Pad, 6-MLF@Supplier Device Package6-MLF@ (2x2) | Manufacturer Part Number     | MIC47050-1.2YML-TRVAO                          |
| PMIC - Voltage Regulators - LinearPackage6-VDFN Exposed Pad, 6-MLF®SeriesAutomotive, AEC-Q100Output ConfigurationPositiveOutput TypeFixedNumber of Regulators1Voltage - Input (Max)3.6VVoltage - Output (Min/Fixed)1.2VVoltage - Output (Max)-Voltage Dropout (Max)0.12V @ 500mACurrent - Output500mACurrent - Quiescent (Iq)15µACurrent - Supply (Max)-PSRR50dB ~ 37dB (10kHz ~ 100kHz)Control FeaturesFinable, Power GoodProtection FeaturesOver Temperature, Under Voltage Lockout (UVLO)Operating Temperature40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed Pad, 6-MLF®Supplier Device Package6-MLF® (2x2)                       | Manufacturer                 | Microchip Technology                           |
| Package6-VDFN Exposed Pad, 6-MLF®SeriesAutomotive, AEC-Q100Output ConfigurationPositiveOutput TypeFixedNumber of Regulators1Voltage - Input (Max)3.6VVoltage - Output (Min/Fixed)1.2VVoltage - Output (Max)-Voltage Dropout (Max)0.12V @ 500mACurrent - Output500mACurrent - Quiescent (Iq)15µACurrent - Supply (Max)-PSRR50dB ~ 37dB (10kHz ~ 100kHz)Control FeaturesFinable, Power GoodProtection FeaturesOver Temperature, Under Voltage Lockout (UVLO)Operating Temperature40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed Pad, 6-MLF®Supplier Device Package6-MLF® (2x2)   | Category                     | Integrated Circuits (ICs)                      |
| SeriesAutomotive, AEC-Q100Output ConfigurationPositiveOutput TypeFixedNumber of Regulators1Voltage - Input (Max)3.6VVoltage - Output (Min/Fixed)1.2VVoltage - Output (Max)0.12V @ 500mAVoltage Dropout (Max)500mACurrent - Output500mACurrent - Quiescent (Iq)15µACurrent - Supply (Max)-PSRR50dB ~ 37dB (10kHz ~ 100kHz)Control FeaturesFnable, Power GoodProtection FeaturesOver Temperature, Under Voltage Lockout (UVLO)Operating Temperature40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed Pad, 6-MLF®Supplier Device Package6-MLF® (2x2)   |                              | PMIC - Voltage Regulators - Linear             |
| Output ConfigurationPositiveOutput TypeFixedNumber of Regulators1Voltage - Input (Max)3.6VVoltage - Output (Min/Fixed)1.2VVoltage - Output (Max)-Voltage - Output (Max)0.12V @ 500mACurrent - Output500mACurrent - Output15µACurrent - Supply (Max)-PSRR50dB ~ 37dB (10kHz ~ 100kHz)Control FeaturesSover Temperature, Under Voltage Lockout (UVLO)Operating Temperature40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed Pad, 6-MLF®Supplier Device Package6-MLF® (2x2)  | Package                      | 6-VDFN Exposed Pad, 6-MLF®                     |
| PrivateFixedOutput TypeFixedNumber of Regulators1Voltage - Input (Max)3.6VVoltage - Output (Min/Fixed)1.2VVoltage - Output (Max)-Voltage Dropout (Max)0.12V @ 500mACurrent - Output500mACurrent - Quiescent (Iq)15µACurrent - Supply (Max)-PSRR50dB ~ 37dB (10kHz ~ 100kHz)Control FeaturesDover Temperature, Under Voltage Lockout (UVLO)Operating Temperature440°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case6-MLF® (2x2)   | Series                       | Automotive, AEC-Q100                           |
| Number of Regulators1Number of Regulators3.6VVoltage - Input (Max)3.6VVoltage - Output (Min/Fixed)1.2VVoltage - Output (Max)-Voltage Dropout (Max)0.12V @ 500mACurrent - Output500mACurrent - Quiescent (Iq)15µACurrent - Supply (Max)-PSRR50dB ~ 37dB (10kHz ~ 100kHz)Control FeaturesDover Temperature, Under Voltage Lockout (UVLO)Operating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed Pad, 6-MLF®Supplier Device Package6-MLF® (2x2)  | Output Configuration         | Positive                                       |
| Voltage - Input (Max)3.6VVoltage - Output (Min/Fixed)1.2VVoltage - Output (Max)-Voltage Dropout (Max)0.12V @ 500mACurrent - Output500mACurrent - Quiescent (Iq)15µACurrent - Supply (Max)-PSRR50dB ~ 37dB (10kHz ~ 100kHz)Control FeaturesEnable, Power GoodProtection FeaturesOver Temperature, Under Voltage Lockout (UVLO)Operating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed Pad, 6-MLF®Supplier Device Package6-MLF@ (2x2)   | Output Type                  | Fixed  |
| Voltage - Output (Min/Fixed)1.2VVoltage - Output (Max)-Voltage Dropout (Max)0.12V @ 500mACurrent - Output500mACurrent - Quiescent (Iq)15µACurrent - Supply (Max)-PSRR50dB ~ 37dB (10kHz ~ 100kHz)Control FeaturesEnable, Power GoodProtection FeaturesOver Temperature, Under Voltage Lockout (UVLO)Operating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed Pad, 6-MLF®Supplier Device Package6-MLF® (2x2)  | Number of Regulators         | 1  |
| Voltage - Output (Max)-Voltage Dropout (Max)0.12V @ 500mACurrent - Output500mACurrent - Quiescent (Iq)15μACurrent - Supply (Max)-PSRR50dB ~ 37dB (10kHz ~ 100kHz)Control FeaturesEnable, Power GoodProtection FeaturesOver Temperature, Under Voltage Lockout (UVLO)Operating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed Pad, 6-MLF®Supplier Device Package6-MLF® (2x2)  | Voltage - Input (Max)        | 3.6V   |
| Voltage Dropout (Max)0.12V @ 500mACurrent - Output500mACurrent - Quiescent (Iq)15μACurrent - Supply (Max)-PSRR50dB ~ 37dB (10kHz ~ 100kHz)Control FeaturesEnable, Power GoodProtection FeaturesOver Temperature, Under Voltage Lockout (UVLO)Operating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed Pad, 6-MLF®Supplier Device Package6-MLF® (2x2)   | Voltage - Output (Min/Fixed) | 1.2V   |
| Current - Output500mACurrent - Quiescent (Iq)15μACurrent - Supply (Max)-PSRR50dB ~ 37dB (10kHz ~ 100kHz)Control FeaturesEnable, Power GoodProtection FeaturesOver Temperature, Under Voltage Lockout (UVLO)Operating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed Pad, 6-MLF®Supplier Device Package6-MLF® (2x2)   | Voltage - Output (Max)       | -  |
| Current - Quiescent (Iq)15µACurrent - Supply (Max)-PSRR50dB ~ 37dB (10kHz ~ 100kHz)Control FeaturesEnable, Power GoodProtection FeaturesOver Temperature, Under Voltage Lockout (UVLO)Operating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed Pad, 6-MLF®Supplier Device Package6-MLF® (2x2)  | Voltage Dropout (Max)        | 0.12V @ 500mA                                  |
| Current - Supply (Max)-PSRR50dB ~ 37dB (10kHz ~ 100kHz)Control FeaturesEnable, Power GoodProtection FeaturesOver Temperature, Under Voltage Lockout (UVLO)Operating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed Pad, 6-MLF®Supplier Device Package6-MLF® (2x2)  | Current - Output             | 500mA  |
| PSRR50dB ~ 37dB (10kHz ~ 100kHz)Control FeaturesEnable, Power GoodProtection FeaturesOver Temperature, Under Voltage Lockout (UVLO)Operating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed Pad, 6-MLF®Supplier Device Package6-MLF® (2x2)   | Current - Quiescent (Iq)     | 15μΑ   |
| Control FeaturesEnable, Power GoodProtection FeaturesOver Temperature, Under Voltage Lockout (UVLO)Operating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed Pad, 6-MLF®Supplier Device Package6-MLF® (2x2)   | Current - Supply (Max)       | -  |
| Protection FeaturesOver Temperature, Under Voltage Lockout (UVLO)Operating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed Pad, 6-MLF®Supplier Device Package6-MLF® (2x2)   | PSRR                         | 50dB ~ 37dB (10kHz ~ 100kHz)                   |
| Operating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed Pad, 6-MLF®Supplier Device Package6-MLF® (2x2)  | Control Features             | Enable, Power Good                             |
| Mounting TypeSurface MountPackage / Case6-VDFN Exposed Pad, 6-MLF®Supplier Device Package6-MLF® (2x2)   | Protection Features          | Over Temperature, Under Voltage Lockout (UVLO) |
| Package / Case 6-VDFN Exposed Pad, 6-MLF®   Supplier Device Package 6-MLF® (2x2)  | Operating Temperature        | -40°C ~ 125°C (TJ)                             |
| Supplier Device Package 6-MLF® (2x2)  | Mounting Type                | Surface Mount                                  |
|   | Package / Case               | 6-VDFN Exposed Pad, 6-MLF®                     |
| Report errors?  | Supplier Device Package      | 6-MLF® (2x2)                                   |
|   |                              | Report errors?                                 |

### MIC47050-1.2YML-TRVAO Guarantees



**Quality Guarantees** 

We provide 90 days warranty. \* If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### Service Guarantees

We guarantee 100% customer satisfaction. Our experienced sales team and tech support team back our services to satisfy all our customers.

#### MIC47050-1.2YML-TRVAO Payment Methods



If you have any question about MIC47050-1.2YML-TRVAO, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com