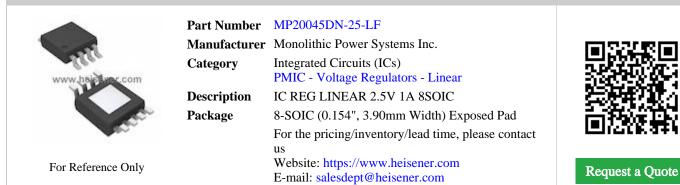


# MP20045DN-25-LF

#### MP20045DN-25-LF Information



# **Certified Quality**

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.



# MP20045DN-25-LF Specifications

ManufacturerMonolithic Power Systems Inc.CategoryIntegrated Circuits (ICs)Package8-SOIC (0.154", 3.90mm Width) Exposed PadPackage-Output ConfigurationPositiveOutput ConfigurationPositiveOutput TypeFixedNumber of Regulators1Voltage - Input (Max)5.5VVoltage - Output (Max)-Voltage - Output (Max)0.28V @ 1ACurrent - OutputInputCurrent - Output10µACurrent - Supply (Max)110µAPSRR56dB (IkHz)Control FeaturesOver Current, Over TemperatureOperating Temperature40°C ~ 125°CMonnting Type8-SOIC (0.154", 3.90mm Width) Exposed PadPackage / Case8-SOIC (0.154", 3.90mm Width) Exposed PadSupplier Device Package8-SOIC -Pe			
Category Integrated Circuits (Cs)   PMIC - Voltage Regulators - Linear   Package 8-SOIC (0.154", 3.90mm Width) Exposed Pad   Series -   Output Configuration Positive   Output Type Fixed   Number of Regulators 1   Voltage - Input (Max) 5.5V   Voltage - Output (Min/Fixed) 2.5V   Voltage - Output (Max) -   Voltage Dropout (Max) 0.28V @ 1A   Current - Output 1   Current - Quiescent (Iq) -   Current - Supply (Max) 10µA   PSRR 56dB (1kHz)   Control Features Over Current, Over Temperature   Operating Temperature 40°C ~ 125°C   Mounting Type Surface Mount   Package / Case 8-SOIC (0.154", 3.90mm Width) Exposed Pad   Surplier Device Package 8-SOIC - EP	Manufacturer Part Number	MP20045DN-25-LF	
PMIC - Voltage Regulators - LinearPackage8-SOIC (0.154", 3.90mm Width) Exposed PadSeries-Output ConfigurationPositiveOutput ConfigurationPositiveNumber of Regulators1Voltage - Input (Max)5.5VVoltage - Output (Min/Fixed)2.5VVoltage - Output (Max)-Voltage - Output (Max)0.28V @ 1ACurrent - Output1Current - Output1.0µAPSRR56dB (1kHz)Control FeaturesOver Current, Over TemperatureProtection FeaturesOver Current, Over TemperatureOperating Temperature-40°C ~ 125°CMounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width) Exposed PadSupplier Device Package8-SOIC-EP	Manufacturer	Monolithic Power Systems Inc.	
Package8-SOIC (0.154", 3.90mm Width) Exposed PadSeries-Output ConfigurationPositiveOutput TypeFixedNumber of Regulators1Voltage - Input (Max)5.5VVoltage - Output (Min/Fixed)2.5VVoltage - Output (Max)-Voltage - Output (Max)0.28V @ 1ACurrent - Output10µACurrent - Quiescent (Iq)-Current - Supply (Max)56dB (1kHz)Control Features56dB (1kHz)Protection FeaturesOver Current, Over TemperatureOperating Temperature-40°C ~ 125°CMounting TypeSufface MountPackage / Case8-SOIC (0.154", 3.90mm Width) Exposed PadSupplier Device Package8-SOIC-EP	Category	Integrated Circuits (ICs)	
Series-Output ConfigurationPositiveOutput TypeFixedNumber of Regulators1Voltage - Input (Max)5.5VVoltage - Output (Min/Fixed)2.5VVoltage - Output (Max)-Voltage - Output (Max)0.28V @ 1ACurrent - Output1ACurrent - Output110µACurrent - Supply (Max)110µAPSRR56dB (1kHz)Control FeaturesOver Current, Over TemperatureProtection Features-40°C ~ 125°CMounting TypeSurface MountPackage / Case8-SOIC (D.154", 3.90mm Width) Exposed PadSupplier Device Package8-SOIC-EP		PMIC - Voltage Regulators - Linear	
Output ConfigurationPositiveOutput TypeFixedNumber of Regulators1Voltage - Input (Max)5.5VVoltage - Output (Min/Fixed)2.5VVoltage - Output (Max)-Voltage - Output (Max)0.28V @ 1ACurrent - Output1Current - Output-Current - Quiescent (Iq)-Current - Supply (Max)110µAPSRR56dB (1kHz)Control FeaturesOver Current, Over TemperatureOperating Temperature-Querating TemperatureSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width) Exposed PadSupplier Device Package8-SOIC-EP	Package	8-SOIC (0.154", 3.90mm Width) Exposed Pad	
PrivationFixedOutput TypeFixedNumber of Regulators1Voltage - Input (Max)5.5VVoltage - Output (Min/Fixed)2.5VVoltage - Output (Max)-Voltage Dropout (Max)0.28V @ 1ACurrent - Output1ACurrent - Quiescent (Iq)-Current - Supply (Max)110µAPSRR56dB (1kHz)Control FeaturesOver Current, Over TemperatureOperating Temperature40°C ~ 125°CMounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width) Exposed PadSupplier Device Package8-SOIC-EP	Series	-	
Number of Regulators1Number of Regulators5.5VVoltage - Input (Max)5.5VVoltage - Output (Min/Fixed)2.5VVoltage - Output (Max)-Voltage Dropout (Max)0.28V @ 1ACurrent - Output1ACurrent - Quiescent (Iq)-Current - Supply (Max)110µAPSRR56dB (1kHz)Control FeaturesOver Current, Over TemperatureOperating Temperature-40°C ~ 125°CMounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width) Exposed PadSupplier Device Package8-SOIC-EP	Output Configuration	Positive	
Voltage - Input (Max) 5.5V   Voltage - Output (Min/Fixed) 2.5V   Voltage - Output (Max) -   Voltage Dropout (Max) 0.28V @ 1A   Current - Output 1A   Current - Quiescent (Iq) -   Current - Supply (Max) 110µA   PSRR 56dB (1kHz)   Control Features Over Current, Over Temperature   Protection Features Over Current, Over Temperature   Operating Temperature -40°C ~ 125°C   Mounting Type Surface Mount   Package / Case 8-SOIC (0.154", 3.90mm Width) Exposed Pad   Supplier Device Package 8-SOIC-EP	Output Type	Fixed	
Voltage - Output (Min/Fixed)2.5VVoltage - Output (Max)-Voltage Dropout (Max)0.28V @ 1ACurrent - Output1ACurrent - Quiescent (Iq)-Current - Supply (Max)110µAPSRR56dB (1kHz)Control FeaturesEnable, Power GoodProtection FeaturesOver Current, Over TemperatureOperating Temperature-40°C ~ 125°CMounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width) Exposed PadSupplier Device Package8-SOIC-EP	Number of Regulators	1	
Voltage - Output (Max)-Voltage Dropout (Max)0.28V @ 1ACurrent - Output1ACurrent - Quiescent (Iq)-Current - Supply (Max)110μAPSRR56dB (1kHz)Control FeaturesEnable, Power GoodProtection FeaturesOver Current, Over TemperatureOperating Temperature-40°C ~ 125°CMounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width) Exposed PadSupplier Device Package8-SOIC-EP	Voltage - Input (Max)	5.5V	
Voltage Dropout (Max)0.28V @ 1ACurrent - Output1ACurrent - Quiescent (Iq)-Current - Supply (Max)110μAPSRR56dB (1kHz)Control FeaturesEnable, Power GoodProtection FeaturesOver Current, Over TemperatureOperating Temperature-40°C ~ 125°CMounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width) Exposed Pad	Voltage - Output (Min/Fixed)	2.5V	
Current - OutputIACurrent - Quiescent (Iq)-Current - Supply (Max)110μAPSRR56dB (1kHz)Control FeaturesEnable, Power GoodProtection FeaturesOver Current, Over TemperatureOperating Temperature-40°C ~ 125°CMounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width) Exposed PadSupplier Device Package8-SOIC-EP	Voltage - Output (Max)	-	
Current - Quiescent (Iq)-Current - Supply (Max)110μAPSRR56dB (1kHz)Control FeaturesEnable, Power GoodProtection FeaturesOver Current, Over TemperatureOperating Temperature-40°C ~ 125°CMounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width) Exposed PadSupplier Device Package8-SOIC-EP	Voltage Dropout (Max)	0.28V @ 1A	
Current - Supply (Max)110μAPSRR5dB (1kHz)Control FeaturesEnable, Power GoodProtection FeaturesOver Current, Over TemperatureOperating Temperature-40°C ~ 125°CMounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width) Exposed PadSupplier Device Package8-SOIC-EP	Current - Output	1A	
PSRR56dB (1kHz)Control FeaturesEnable, Power GoodProtection FeaturesOver Current, Over TemperatureOperating Temperature-40°C ~ 125°CMounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width) Exposed PadSupplier Device Package8-SOIC-EP	Current - Quiescent (Iq)	-	
Control FeaturesEnable, Power GoodProtection FeaturesOver Current, Over TemperatureOperating Temperature-40°C ~ 125°CMounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width) Exposed PadSupplier Device Package8-SOIC-EP	Current - Supply (Max)	110µA	
Protection FeaturesOver Current, Over TemperatureOperating Temperature-40°C ~ 125°CMounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width) Exposed PadSupplier Device Package8-SOIC-EP	PSRR	56dB (1kHz)	
Operating Temperature-40°C ~ 125°CMounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width) Exposed PadSupplier Device Package8-SOIC-EP	Control Features	Enable, Power Good	
Mounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width) Exposed PadSupplier Device Package8-SOIC-EP	Protection Features	Over Current, Over Temperature	
Package / Case8-SOIC (0.154", 3.90mm Width) Exposed PadSupplier Device Package8-SOIC-EP	Operating Temperature	-40°C ~ 125°C	
Supplier Device Package 8-SOIC-EP	Mounting Type	Surface Mount	
	Package / Case	8-SOIC (0.154", 3.90mm Width) Exposed Pad	
Report errors?	Supplier Device Package	8-SOIC-EP	
1			Report errors?

#### MP20045DN-25-LF 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 BUARANTEE

#### **Service Guarantees**

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

### MP20045DN-25-LF Payment Methods



## MP20045DN-25-LF Shipping Methods



If you have any question about MP20045DN-25-LF, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com