

# ACS723KMATR-40AB-T

### **ACS723KMATR-40AB-T Information**



For Reference Only

Part NumberACS723KMATR-40AB-TManufacturerAllegro MicroSystems, LLC

Category Sensors, Transducers
Current Transducers

**Description** SENSOR CURRENT HALL 40A AC/DC

**Package** 16-SOIC (0.295", 7.50mm Width)

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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# **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.









# **ACS723KMATR-40AB-T Specifications**

Manufacturer Part Number         ACS723KMATR-40AB-T           Manufacturer         Allegro MicroSystems, LLC           Category         Sensors, Transducers           Package         16-SOIC (0.295", 7.50mm Width)           Series         -           For Measuring         AC/DC           Sensor Type         Hall Effect, Open Loop           Current - Sensing         40A           Number of Channels         1           Output         Ratiometric, Voltage           Sensitivity         50mV/A           Frequency         DC ~ 80kHz           Linearity         ±1%           Accuracy         ±2%           Voltage - Supply         4.5 V ~ 5.5 V           Response Time         5µs           Current - Supply (Max)         14mA           Operating Temperature         -40°C ~ 125°C           Polarization         Bidirectional           Mounting Type         Surface Mount           Package / Case         16-SOIC (0.295", 7.50mm Width)		
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Series         -           For Measuring         AC/DC           Sensor Type         Hall Effect, Open Loop           Current - Sensing         40A           Number of Channels         1           Output         Ratiometric, Voltage           Sensitivity         50mV/A           Frequency         DC ~ 80kHz           Linearity         ±1%           Accuracy         ±2%           Voltage - Supply         4.5 V ~ 5.5 V           Response Time         5μs           Current - Supply (Max)         14mA           Operating Temperature         -40°C ~ 125°C           Polarization         Bidirectional           Mounting Type         Surface Mount           Package / Case         16-SOIC (0.295", 7.50mm Width)		Current Transducers
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Sensor Type         Hall Effect, Open Loop           Current - Sensing         40A           Number of Channels         1           Output         Ratiometric, Voltage           Sensitivity         50mV/A           Frequency         DC ~ 80kHz           Linearity         ±1%           Accuracy         ±2%           Voltage - Supply         4.5 V ~ 5.5 V           Response Time         5µs           Current - Supply (Max)         14mA           Operating Temperature         -40°C ~ 125°C           Polarization         Bidirectional           Mounting Type         Surface Mount           Package / Case         16-SOIC (0.295", 7.50mm Width)	Series	-
Current - Sensing  Number of Channels  1  Output  Ratiometric, Voltage  Sensitivity  50mV/A  Frequency  DC ~ 80kHz  Linearity  ±1%  Accuracy  Voltage - Supply  4.5 V ~ 5.5 V  Response Time  5µs  Current - Supply (Max)  14mA  Operating Temperature  -40°C ~ 125°C  Polarization  Mounting Type  Surface Mount  Package / Case  40A  40A  40A  40A  40A  40A  40A  40	For Measuring	AC/DC
Number of Channels  Output Ratiometric, Voltage  Sensitivity 50mV/A  Frequency DC ~ 80kHz  Linearity 4:1%  Accuracy ±2%  Voltage - Supply 4.5 V ~ 5.5 V  Response Time 5µs  Current - Supply (Max) Operating Temperature -40°C ~ 125°C  Polarization Bidirectional  Mounting Type Surface Mount Package / Case  1 1  Ratiometric, Voltage Ratiometric, Voltage  50mV/A  10mA  50mV/A  14mA  4.5 V ~ 80kHz  ±1% 4.5 V ~ 5.5 V  8 directional  8 idirectional  9 idirectional  8 idirectional  8 idirectional  9 idirectional  8 idirectional  9 idirectional  8 idirectional  9 idirectional  9 idirectional  16 - SOIC (0.295", 7.50mm Width)	Sensor Type	Hall Effect, Open Loop
OutputRatiometric, VoltageSensitivity50mV/AFrequencyDC ~ 80kHzLinearity±1%Accuracy±2%Voltage - Supply4.5 V ~ 5.5 VResponse Time5μsCurrent - Supply (Max)14mAOperating Temperature-40°C ~ 125°CPolarizationBidirectionalMounting TypeSurface MountPackage / Case16-SOIC (0.295", 7.50mm Width)	Current - Sensing	40A
Sensitivity 50mV/A 50mV/A Frequency DC ~ 80kHz   Linearity $\pm 1\%$ Accuracy $\pm 2\%$ Voltage - Supply $4.5 \text{ V} \sim 5.5 \text{ V}$ Response Time $5\mu\text{s}$ Current - Supply (Max) $14\mu\text{A}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Polarization Bidirectional   Mounting Type   Surface Mount   Package / Case $16-\text{SOIC }(0.295^{\circ}, 7.50 \text{mm Width})$	Number of Channels	1
Frequency DC $\sim 80 \text{kHz}$ Linearity $\pm 1\%$ Accuracy $\pm 2\%$ Voltage - Supply $4.5 \text{ V} \sim 5.5 \text{ V}$ Response Time $5\mu \text{s}$ Current - Supply (Max) $14\mu \text{A}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Polarization Bidirectional  Mounting Type Surface Mount  Package / Case $16\text{-SOIC } (0.295^{\circ}, 7.50 \text{mm Width})$	Output	Ratiometric, Voltage
Linearity $\pm 1\%$ Accuracy $\pm 2\%$ Voltage - Supply $4.5 \text{ V} \sim 5.5 \text{ V}$ Response Time $5\mu\text{s}$ Current - Supply (Max) $14\mu\text{A}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Polarization Bidirectional Mounting Type Surface Mount Package / Case $16\text{-SOIC } (0.295^{\circ}\text{, 7.50mm Width})$	Sensitivity	50mV/A
Accuracy $\pm 2\%$ Voltage - Supply $4.5 \text{ V} \sim 5.5 \text{ V}$ Response Time $5\mu \text{s}$ Current - Supply (Max) $14\mu \text{A}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Polarization Bidirectional Mounting Type Surface Mount $16-\text{SOIC}$ (0.295", 7.50mm Width)	Frequency	DC ~ 80kHz
Voltage - Supply $ \begin{array}{lll} 4.5 \ V \sim 5.5 \ V \\ \\ \text{Response Time} & 5 \mu s \\ \\ \text{Current - Supply (Max)} & 14 \text{mA} \\ \\ \text{Operating Temperature} & -40 ^{\circ}\text{C} \sim 125 ^{\circ}\text{C} \\ \\ \text{Polarization} & \text{Bidirectional} \\ \\ \text{Mounting Type} & \text{Surface Mount} \\ \\ \text{Package / Case} & 16-\text{SOIC } (0.295", 7.50 \text{mm Width}) \\ \end{array} $	Linearity	±1%
Response Time $5\mu s$ Current - Supply (Max) $14mA$ Operating Temperature $-40^{\circ}C \sim 125^{\circ}C$ Polarization Bidirectional Mounting Type Surface Mount Package / Case $16\text{-SOIC }(0.295^{\circ}, 7.50 \text{mm Width})$	Accuracy	±2%
Current - Supply (Max) 14mA   Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Polarization Bidirectional   Mounting Type Surface Mount   Package / Case 16-SOIC $(0.295^{\circ}, 7.50  \text{mm Width})$	Voltage - Supply	4.5 V ~ 5.5 V
Operating Temperature -40°C ~ 125°C  Polarization Bidirectional  Mounting Type Surface Mount  Package / Case 16-SOIC (0.295", 7.50mm Width)	Response Time	5μs
Polarization Bidirectional  Mounting Type Surface Mount  Package / Case 16-SOIC (0.295", 7.50mm Width)	Current - Supply (Max)	14mA
Mounting Type Surface Mount Package / Case 16-SOIC (0.295", 7.50mm Width)	Operating Temperature	-40°C ~ 125°C
Package / Case 16-SOIC (0.295", 7.50mm Width)	Polarization	Bidirectional
	Mounting Type	Surface Mount
Report errors?	Package / Case	16-SOIC (0.295", 7.50mm Width)
		Report errors?

#### **ACS723KMATR-40AB-T Guarantees**



#### **Ouality 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.

### **ACS723KMATR-40AB-T Payment Methods**



















### **ACS723KMATR-40AB-T Shipping Methods**













If you have any question about ACS723KMATR-40AB-T, please do not hesitate to contact us!

Website: https://www.heisener.com E-mail: salesdept@heisener.com