



### 416F24023ALT Information



For Reference Only

Part Number 416F24023ALT

Manufacturer CTS-Frequency Controls

Category Crystals, Oscillators, Resonators

Crystals

**Description** CRYSTAL 24.000 MHZ 12PF SMT

Package 4-SMD, No Lead

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.









# 416F24023ALT Specifications

Manufacturer Part Number         416F24023ALT           Manufacturer         CTS-Frequency Controls           Category         Crystals, Oscillators, Resonators           Package         4-SMD, No Lead           Series         416           Type         MHz Crystal           Frequency         24MHz           Frequency Stability         ±30ppm           Frequency Tolerance         ±20ppm           Load Capacitance         12pF           ESR (Equivalent Series Resistance)         200 Ohm           Operating Mode         Fundamental           Operating Temperature         -10°C ~ 60°C           Ratings         -           Mounting Type         Surface Mount           Package / Case         4-SMD, No Lead           Size / Dimension         0.063" L x 0.047" W (1.60mm x 1.20mm)           Height - Seated (Max)         0.018" (0.45mm)	*	
Category         Crystals, Oscillators, Resonators           Package         4-SMD, No Lead           Series         416           Type         MHz Crystal           Frequency         24MHz           Frequency Stability         ±30ppm           Frequency Tolerance         ±20ppm           Load Capacitance         12pF           ESR (Equivalent Series Resistance)         200 Ohm           Operating Mode         Fundamental           Operating Temperature         -10°C ~ 60°C           Ratings         -           Mounting Type         Surface Mount           Package / Case         4-SMD, No Lead           Size / Dimension         0.063" L x 0.047" W (1.60mm x 1.20mm)           Height - Seated (Max)         0.018" (0.45mm)	Manufacturer Part Number	416F24023ALT
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Package 4-SMD, No Lead  Series 416  Type MHz Crystal  Frequency 24MHz  Frequency Stability ±30ppm  Frequency Tolerance ±20ppm  Load Capacitance 12pF  ESR (Equivalent Series Resistance) 200 Ohm  Operating Mode Fundamental  Operating Temperature -10°C ~ 60°C  Ratings -  Mounting Type Surface Mount  Package / Case 4-SMD, No Lead  Size / Dimension 0.063" L x 0.047" W (1.60mm x 1.20mm)  Height - Seated (Max) 0.018" (0.45mm)	Category	Crystals, Oscillators, Resonators
Series 416 Type MHz Crystal Frequency 24MHz Frequency Stability ±30ppm Frequency Tolerance ±20ppm Load Capacitance 12pF ESR (Equivalent Series Resistance) 200 Ohm Operating Mode Fundamental Operating Temperature -10°C ~ 60°C Ratings - Mounting Type Surface Mount Package / Case 4-SMD, No Lead Size / Dimension 0.063" L x 0.047" W (1.60mm x 1.20mm) Height - Seated (Max) 0.018" (0.45mm)		Crystals
Type MHz Crystal  Frequency 24MHz  Frequency Stability ±30ppm  Frequency Tolerance ±20ppm  Load Capacitance 12pF  ESR (Equivalent Series Resistance) 200 Ohm  Operating Mode Fundamental  Operating Temperature -10°C ~ 60°C  Ratings -  Mounting Type Surface Mount  Package / Case 4-SMD, No Lead  Size / Dimension 0.063" L x 0.047" W (1.60mm x 1.20mm)  Height - Seated (Max) 0.018" (0.45mm)	Package	4-SMD, No Lead
Frequency Stability ±30ppm  Frequency Tolerance ±20ppm  Load Capacitance 12pF  ESR (Equivalent Series Resistance) 200 Ohm  Operating Mode Fundamental  Operating Temperature -10°C ~ 60°C  Ratings -  Mounting Type Surface Mount  Package / Case 4-SMD, No Lead  Size / Dimension 0.063" L x 0.047" W (1.60mm x 1.20mm)  Height - Seated (Max) 0.018" (0.45mm)	Series	416
Frequency Stability ±30ppm  Frequency Tolerance ±20ppm  Load Capacitance 12pF  ESR (Equivalent Series Resistance) 200 Ohm  Operating Mode Fundamental  Operating Temperature -10°C ~ 60°C  Ratings -  Mounting Type Surface Mount  Package / Case 4-SMD, No Lead  Size / Dimension 0.063" L x 0.047" W (1.60mm x 1.20mm)  Height - Seated (Max) 0.018" (0.45mm)	Type	MHz Crystal
Frequency Tolerance ±20ppm  Load Capacitance 12pF  ESR (Equivalent Series Resistance) 200 Ohm  Operating Mode Fundamental  Operating Temperature -10°C ~ 60°C  Ratings -  Mounting Type Surface Mount  Package / Case 4-SMD, No Lead  Size / Dimension 0.063" L x 0.047" W (1.60mm x 1.20mm)  Height - Seated (Max) 0.018" (0.45mm)	Frequency	24MHz
Load Capacitance12pFESR (Equivalent Series Resistance)200 OhmOperating ModeFundamentalOperating Temperature-10°C ~ 60°CRatings-Mounting TypeSurface MountPackage / Case4-SMD, No LeadSize / Dimension0.063" L x 0.047" W (1.60mm x 1.20mm)Height - Seated (Max)0.018" (0.45mm)	Frequency Stability	±30ppm
ESR (Equivalent Series Resistance)  Operating Mode  Fundamental  Operating Temperature  -10°C ~ 60°C  Ratings  -  Mounting Type  Surface Mount  Package / Case  4-SMD, No Lead  Size / Dimension  0.063" L x 0.047" W (1.60mm x 1.20mm)  Height - Seated (Max)	Frequency Tolerance	±20ppm
$\begin{array}{llllllllllllllllllllllllllllllllllll$	Load Capacitance	12pF
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	ESR (Equivalent Series Resistance)	200 Ohm
Ratings -  Mounting Type Surface Mount  Package / Case 4-SMD, No Lead  Size / Dimension 0.063" L x 0.047" W (1.60mm x 1.20mm)  Height - Seated (Max) 0.018" (0.45mm)	Operating Mode	Fundamental
Mounting TypeSurface MountPackage / Case4-SMD, No LeadSize / Dimension0.063" L x 0.047" W (1.60mm x 1.20mm)Height - Seated (Max)0.018" (0.45mm)	Operating Temperature	-10°C ~ 60°C
Package / Case       4-SMD, No Lead         Size / Dimension       0.063" L x 0.047" W (1.60mm x 1.20mm)         Height - Seated (Max)       0.018" (0.45mm)	Ratings	-
Size / Dimension       0.063" L x 0.047" W (1.60mm x 1.20mm)         Height - Seated (Max)       0.018" (0.45mm)	Mounting Type	Surface Mount
Height - Seated (Max) 0.018" (0.45mm)	Package / Case	4-SMD, No Lead
	Size / Dimension	0.063" L x 0.047" W (1.60mm x 1.20mm)
Report errors?	Height - Seated (Max)	0.018" (0.45mm)
		Report errors?

### 416F24023ALT 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.

### 416F24023ALT Payment Methods



















## 416F24023ALT Shipping Methods













If you have any question about 416F24023ALT, please do not hesitate to contact us!

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