



## 416F48022CAR Information



For Reference Only

Part Number 416F48022CAR

Manufacturer CTS-Frequency Controls

Category Crystals, Oscillators, Resonators

Crystals

**Description** CRYSTAL 48.000 MHZ 10PF 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.









## 416F48022CAR Specifications

Manufacturer Part Number         416F48022CAR           Manufacturer         CTS-Frequency Controls           Category         Crystals, Oscillators, Resonators           Package         4-SMD, No Lead           Series         416           Type         MHz Crystal           Frequency         48MHz           Frequency Stability         ±20ppm           Frequency Tolerance         ±20ppm           Load Capacitance         10pF           ESR (Equivalent Series Resistance)         100 Ohm           Operating Mode         Fundamental           Operating Temperature         -20°C ~ 70°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         48MHz           Frequency Stability         ±20ppm           Frequency Tolerance         ±20ppm           Load Capacitance         10pF           ESR (Equivalent Series Resistance)         100 Ohm           Operating Mode         Fundamental           Operating Temperature         -20°C ~ 70°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	416F48022CAR
Package         4-SMD, No Lead           Series         416           Type         MHz Crystal           Frequency         48MHz           Frequency Stability         ±20ppm           Frequency Tolerance         ±20ppm           Load Capacitance         10pF           ESR (Equivalent Series Resistance)         100 Ohm           Operating Mode         Fundamental           Operating Temperature         -20°C ~ 70°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	CTS-Frequency Controls
Package 4-SMD, No Lead  Series 416  Type MHz Crystal  Frequency 48MHz  Frequency Stability ±20ppm  Frequency Tolerance ±20ppm  Load Capacitance 10pF  ESR (Equivalent Series Resistance) 100 Ohm  Operating Mode Fundamental  Operating Temperature -20°C ~ 70°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         48MHz           Frequency Stability         ±20ppm           Frequency Tolerance         ±20ppm           Load Capacitance         10pF           ESR (Equivalent Series Resistance)         100 Ohm           Operating Mode         Fundamental           Operating Temperature         -20°C ~ 70°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 48MHz  Frequency Stability ±20ppm  Frequency Tolerance ±20ppm  Load Capacitance 10pF  ESR (Equivalent Series Resistance) 100 Ohm  Operating Mode Fundamental  Operating Temperature -20°C ~ 70°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 ±20ppm  Frequency Tolerance ±20ppm  Load Capacitance 10pF  ESR (Equivalent Series Resistance) 100 Ohm  Operating Mode Fundamental  Operating Temperature -20°C ~ 70°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 ±20ppm  Frequency Tolerance ±20ppm  Load Capacitance 10pF  ESR (Equivalent Series Resistance) 100 Ohm  Operating Mode Fundamental  Operating Temperature -20°C ~ 70°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)	Туре	MHz Crystal
Frequency Tolerance ±20ppm  Load Capacitance 10pF  ESR (Equivalent Series Resistance) 100 Ohm  Operating Mode Fundamental  Operating Temperature -20°C ~ 70°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	48MHz
Load Capacitance $10pF$ ESR (Equivalent Series Resistance) $100 \text{ Ohm}$ Operating ModeFundamentalOperating Temperature $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$ Ratings-Mounting TypeSurface MountPackage / Case $4\text{-SMD}$ , No LeadSize / Dimension $0.063'' \text{L x } 0.047'' \text{W } (1.60 \text{mm x } 1.20 \text{mm})$ Height - Seated (Max) $0.018'' (0.45 \text{mm})$	Frequency Stability	±20ppm
ESR (Equivalent Series Resistance) 100 Ohm  Operating Mode Fundamental  Operating Temperature $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$ Ratings -  Mounting Type Surface Mount  Package / Case $4\text{-SMD}$ , No Lead  Size / Dimension $0.063^{\circ}\text{L} \times 0.047^{\circ}\text{W} (1.60\text{mm} \times 1.20\text{mm})$ Height - Seated (Max) $0.018^{\circ}\text{W} (0.45\text{mm})$	Frequency Tolerance	±20ppm
Operating ModeFundamentalOperating Temperature $-20^{\circ}\text{C} \sim 70^{\circ}\text{C}$ Ratings-Mounting TypeSurface MountPackage / Case $4\text{-SMD}$ , No LeadSize / Dimension $0.063''$ L x $0.047''$ W $(1.60\text{mm x } 1.20\text{mm})$ Height - Seated (Max) $0.018''$ $(0.45\text{mm})$	Load Capacitance	10pF
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	ESR (Equivalent Series Resistance)	100 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	-20°C ~ 70°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)
Treport Clients		Report errors?

#### 416F48022CAR 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.

## 416F48022CAR Payment Methods



















### 416F48022CAR Shipping Methods













If you have any question about 416F48022CAR, please do not hesitate to contact us!

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