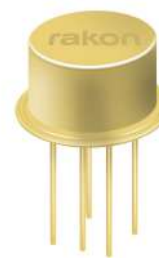


CFPX3000



A range of European Space Components Coordination (ESCC) approved crystals. For use in space applications.

Rakon has had a range of quartz crystal units approved to the requirements of ESCC, as defined in the ESCC generic specification for 30 years. Rakon can therefore provide customers with a source of released quartz crystal units, suitable for use in any ESA project. New type variants can be raised to cover specific customer applications providing the requirement is within the scope of the ESCC detail specifications. The applicable generic specification is ESCC 3501. The applicable detailed specifications (concerning Rakon approval) are : CFPX3750: 3501/001, 3501/008, 3501/011, 3501/012, 3501/018 CFPX3758: 3501/002, 3501/009, 3501/019.



Product description

These crystals are available in two types of holders : T807 cold welded, frequency range 14MHz to 140MHz and T1507 cold welded, frequency range 3MHz to 50MHz.

Applications

- Other
- Satellite Communication
- Communications
- Guidance
- Navigation

Features

- All processing and testing is performed in accordance with an ESCC approved Process Identification Document (PID)
- Fully approved to the requirements of ESCC system
- Lot acceptance testing (LAT) is performed to the level specified by the customer
- Variants tailored to specific customer requirements

Specifications

1.0 SPECIFICATION REFERENCES

Line	Parameter	Test Condition
1.1	Model description	CFPX3000
1.2	RoHS compliant	Yes
1.3	Package sizes available	10.7mm x 8.8mm (CFPX3750)
1.4	Package sizes available	15.75mm x 6.8mm (CFPX3758)
1.5	Package sizes available	22.0mm x 11.8mm (Non ESCC)

2.0 FREQUENCY RANGE

Line	Parameter	Test Condition	Value	Unit
2.1	Frequency range	CFPX3750 in fundamental, 3rd overtone and 5th overtone mode	14 to 140	MHz
2.2	Frequency range	CFPX3758 in fundamental, 3rd overtone and 5th overtone mode	3 to 50	MHz
2.3	Frequency range	Non ESCC. AT-Cut. CNES approved	2 to 50	MHz
2.4	Frequency stability over temperature	Customer specified (see customer order form)		
2.5	Temperature range	Customer specified (see customer order form)		
2.6	Load sensitivity	Customer specified (see customer order form)		
2.7	Long term stability	Customer specified (see customer order form)		

3.0 ENVIRONMENTAL

Line	Parameter	Test Condition
3.1	Storage temperature	Customer specified (see customer order form)
3.2	Final production test flow	CFPT3000 (see final production test flow diagram)

4.0 MARKING

Line	Parameter	Test Condition
4.1	Type	Engraved
4.2	Line 1	RAKON and manufacturing identification

5.0 MANUFACTURING INFORMATION

Line	Parameter	Test Condition
5.1	Reflow shift	Hand soldering
5.2	Packaging description	As per customised requirements