

6.3 CRYSTALS AND OSCILLATORS (03)

6.3.1 Crystals

CRYSTALS, TO-5 CAN				333E
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3501 Detail ESCC 3501/018	RAKON France Pont Sainte Marie France	Qualification	CNES	Sept 2015
		Previously qualified in Argenteuil site		(Oct. 1979)
		Remarks Upon receipt of a request for any retired Variant, the Manufacturer will allocate a new Specific Crystal Identification Number in accordance with 3501/018. It will have identical crystal characteristics to those of the retired variant.		
Qualified range: All variants are qualified. Types covered by similarity: All variants previously specified in (retired) specifications: 3501/001, 3501/008, 3501/011, 3501/012 TO-5 Can (T 807) Frequency Ranges:				
		AT (MHz)	SC (MHz)	
P1		14 to 35	15 to 38	
P3		20 to 100	22 to 110	
P5		45 to 140	55 to 140	

CRYSTALS, TO-8 CAN				334E
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date
Generic ESCC 3501 Detail ESCC 3501/019	RAKON France Pont Sainte Marie France	Qualification	CNES	Sept 2015
		Previously qualified in Argenteuil site		(Oct. 1979)
		Remarks Upon receipt of a request for any retired Variant, the Manufacturer will allocate a new Specific Crystal Identification Number in accordance with 3501/019. It will have identical crystal characteristics to those of the retired variant.		
Qualified range: All variants are qualified. Types covered by similarity: All variants previously specified in (retired) specifications: 3501/002, 3501/009 TO-8 Can (T 1507) Frequency Ranges:				
	AT (MHz)	SC (MHz)		
P1	3 to 20	3 to 22		
P3	10 to 30	10 to 33		
P5	15 to 65	16 to 71		

6.3.2 Oscillators

CRYSTAL OSCILLATOR RK135, CLASS 2, 4MHz to 100MHz, AHCMOS compatible output, Rad-Hard				371B		
Procurement Specifications	Manufacturer	Nature of Approval	Supervising Authority	Initial Qualification Date		
Generic ESCC 3503 Detail ESCC 3503/001	RAKON France Pont Sainte Marie France	Qualification	CNES	Feb 2021		
Remarks: For frequencies below 24MHz, Customers should contact Rakon to confirm feasibility and availability.						
Qualified range:						
Variant Number	Nominal Output Frequency f_{Nom} (MHz)	Case	Nominal Supply Voltage V_{CCNom} (V)	Terminal Material and Finish	Weight max g	Total Dose Radiation Level Letter
01	4 to 100	FP1	3.3	D2	5	R [100krad(Si)]
02	4 to 100	FP2	3.3	D2	5	R [100krad(Si)]
03	4 to 100	FP3	3.3	D2	5	R [100krad(Si)]
04	4 to 100	FP4	3.3	D2	5	R [100krad(Si)]
Operating Temperature Range (°C): -55 to +110						