Space Qualified Crystal Oscillators, LVDS, HC/ACMOS, TTL, HC/ACMOS/LVTTL, LVCMOS

Xsis Electronics is a leading supplier of Advance Design Rad-Hard Crystal Oscillators for Space Applications. Some of the Space Programs where Xsis Oscillators have been used in flight hardware and our standard Space Qualified Oscillator Specifications (SCDs) are shown below. All the Model Numbers offered below use 4 point Crystal mount to provide the highest level of shock and vibration performance. For TID, SEL and SEU data or any other special requirements, please contact us.

Screening & QCI are available per MIL-PRF-55310, MIL-PRF-38534 or EEE-INST-002 as required.

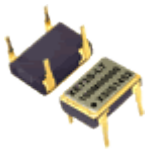
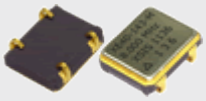
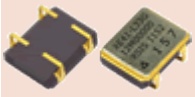
For special screening and QCI requests, please contact us.

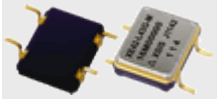
Program Name	Description
Spacebus 3000B	Alcatel Telecommunication Satellite Program
Amos 3	Israel Telecommunication Satellite
Cryosat	ESA Earth Observation Satellite
HTV	Japanese Space Vehicle to Space Station
TerraSar-X	German Earth Observation Satellite
Rapid Eye	ESA Earth Observation Satellite
Lisa Pathfinder	ESA/NASA Earth Observation Satellite
ISSR Mass Memory	Japanese Project
Express AM33, AM44	Russian Telecommunication Satellite

SPACE QUALIFIED CRYSTAL OSCILLATORS

Flight Model	Screening & QCI Per	Alternate Models	Supply Voltage	Output Type	Frequency Range	Package Outline
XD8S	MIL-PRF-55310	XD8E, XD8B, XD8P	2.5V & 3.3V	LVDS	75 MHz - 200 MHz	5 x 7 mm  Leadless
XD8K	MIL-PRF-38534					
XD8N	EEE-INST-002					
XD81S	MIL-PRF-55310	XD81E, XD81B, XD81P	2.5V & 3.3V	LVDS	75 MHz - 200 MHz	5 x 7 mm  "Formed" Leads
XD81K	MIL-PRF-38534					
XD81N	EEE-INST-002					
XD82S	MIL-PRF-55310		2.5V & 3.3V	LVDS	75 MHz - 200 MHz	

XD82K XD82N	MIL-PRF-38534 EEE-INST-002	XD82E, XD82B, XD82P				5 x 7 mm  "Gull Wing" Leads
XD83S XD83K XD83N	MIL-PRF-55310 MIL-PRF-38534 EEE-INST-002	XD83E, XD83B, XD83P	2.5V & 3.3V	LVDS	75 MHz - 200 MHz	5 x 7 mm  "Straight" Leads
XE7S-Rx XE7K-Rx	MIL-PRF-55310 MIL-PRF-38534	XE7E-Rx, XE7B-Rx, XE7P-Rx	1.8V			
XE7S XE7K XE7N	MIL-PRF-55310 MIL-PRF-38534 EEE-INST-002	XE7E, XE7B, XE7P	2.5V, 3.3V 5.0V	HC / ACMOS	500 KHz - 125 MHz	5 x 7 mm  Leadless
XE71S-Rx XE71K-Rx	MIL-PRF-55310 MIL-PRF-38534	XE71E-Rx, XE71B-R0, XE71P-R0	1.8V			
XE71S XE71K XE71N	MIL-PRF-55310 MIL-PRF-38534 EEE-INST-002	XE71E, XE71B, XE71P	2.5V, 3.3V 5.0V	HC / ACMOS	500 KHz - 125 MHz	5 x 7 mm  "Formed" Leads
XE72S-Rx XE72K-Rx	MIL-PRF-55310 MIL-PRF-38534	XE72E-Rx, XE72B-Rx, XE72P-Rx	1.8V			
XE72S XE72K XE72N	MIL-PRF-55310 MIL-PRF-38534 EEE-INST-002	XE72E, XE72B, XE72P	2.5V, 3.3V 5.0V	HC / ACMOS	500 KHz - 125 MHz	5 x 7 mm  "Gull-wing" Leads
XE73S-Rx XE73K-Rx	MIL-PRF-55310 MIL-PRF-38534	XE73E-Rx, XE73B-Rx, XE73P-Rx	1.8V	HC / ACMOS	500 KHz - 125 MHz	

XE73S XE73K XE73N	MIL-PRF-55310 MIL-PRF-38534 EEE-INST-002	XE73E, XE73B, XE73P	2.5V, 3.3V 5.0V			5 x 7 mm  "Straight" Leads
XD671S XD671K XD671N	MIL-PRF-55310 MIL-PRF-38534 EEE-INST-002	XD671E, XD671B, XD671P	2.5V & 3.3V	LVDS	75 MHz - 200 MHz	7 x 9 mm  "Formed" Leads
XD672S XD672K XD672N	MIL-PRF-55310 MIL-PRF-38534 EEE-INST-002	XD672E, XD672B, XD672P	2.5V & 3.3V	LVDS	75 MHz - 200 MHz	7 x 9 mm  "Gull-wing" Leads
XD673S XD673K XD673N	MIL-PRF-55310 MIL-PRF-38534 EEE-INST-002	XD673E, XD673B, XD673P	2.5V & 3.3V	LVDS	75 MHz - 200 MHz	7 x 9 mm  "Straight" Leads
XE64S-R00 XE64K-R00	MIL-PRF-55310 MIL-PRF-38534	XE64E-R00, XE64B-R00, XE64P-R00	1.8V	HC / ACMOS	450 KHz - 125 MHz	7 x 9 mm  "J" Leads
XE64S XE64K XE64N	MIL-PRF-55310 MIL-PRF-38534 EEE-INST-002	XE64E, XE64B, XE64P	2.5V, 3.3V 5.0V			
XE641S-R00 XE641K-R00	MIL-PRF-55310 MIL-PRF-38534	XE641E-R00, XE641B-R00, XE641P-R00	1.8V	HC / ACMOS	450 KHz - 125 MHz	7 x 9 mm  "Formed" Leads
XE641S XE641K	MIL-PRF-55310 MIL-PRF-38534	XE641E, XE641B, XE641P	2.5V, 3.3V 5.0V			

XE641N	EEE-INST-002					
XE642S-R00	MIL-PRF-55310	XE642E-R00, XE642B-R00, XE642P-R00	1.8V	HC / ACMOS	450 KHz - 125 MHz	7 x 9 mm  "Gull Wing" Leads
XE642K-R00	MIL-PRF-38534					
XE642S	MIL-PRF-55310	XE642E, XE642B, XE642P	2.5V, 3.3V 5.0V			
XE642K	MIL-PRF-38534					
XE642N	EEE-INST-002					
XE643S-R00	MIL-PRF-55310	XE643E-R00, XE643B-R00, XE643P-R00	1.8V	HC / ACMOS	450 KHz - 125 MHz	7 x 9 mm  "Straight" Leads
XE643K-R00	MIL-PRF-38534					
XE643S	MIL-PRF-55310	XE643E, XE643B, XE643P	2.5V, 3.3V 5.0V			
XE643K	MIL-PRF-38534					
XE643N	EEE-INST-002					
XE63S-R00	MIL-PRF-55310	XE63E-R00, XE63B-R00, XE63P-R00	1.8V	HC / ACMOS	400 KHz - 100 MHz	9 x 14 mm  "J" Leads
XE63K-R00	MIL-PRF-38534					
XE63S	MIL-PRF-55310	XE63E, XE63B, XE63P	2.5V, 3.3V 5.0V			
XE63K	MIL-PRF-38534					
XE63N	EEE-INST-002					
XE63S-B00	MIL-PRF-55310	XE63E-B00 XE63B-B00, XE63P-B00	5.0 V	TTL	400 KHz - 90.0 MHz	
XE60S-A00	MIL-PRF-55310	XE60E-A00 XE60B-A00, XE60P-A00	5.0 V	HC / ACMOS	125 Hz - 90.0 MHz	14 Pin  DIP
XE60S-B00	MIL-PRF-55310	XE60E-B00 XE60B-B00, XE60P-B00	5.0 V	TTL	125 Hz - 90.0 MHz	
XE60S-L00	MIL-PRF-55310	XE60E-L00 XE60B-L00, XE60P-L00	3.3 V	HC / ACMOS / LVTTL	125 Hz - 125.0 MHz	
XE60S-N00	MIL-PRF-55310	XE60E-N00 XE60B-N00, XE60P-N00	2.5 V	HC / ACMOS	125 Hz - 120.0 MHz	

XE61S-A00	MIL-PRF-55310	XE61E-A00 XE61B-A00, XE61P-A00	5.0 V	HC / ACMOS	125 Hz - 90.0 MHz	4 Pin  DIP
XE61S-B00	MIL-PRF-55310	XE61E-B00 XE61B-B00, XE61P-B00	5.0 V	TTL	125 Hz - 90.0 MHz	
XE61S-L00	MIL-PRF-55310	XE61E-L00 XE61B-L00, XE61P-L00	3.3 V	HC / ACMOS / LVTTL	125 Hz - 125.0 MHz	
XE61S-N00	MIL-PRF-55310	XE61E-N00 XE61B-N00, XE61P-N00	2.5 V	HC / ACMOS	125 Hz - 120.0 MHz	
XE66S-A00	MIL-PRF-55310	XE66E-A00 XE66B-A00, XE66P-A00	5.0 V	HC / ACMOS	450 KHz - 90.0 MHz	TO-5  8 Pin (Round)
XE66S-B00	MIL-PRF-55310	XE66E-B00 XE66B-B00, XE66P-B00	5.0 V	TTL	450 KHz - 90.0 MHz	
XE66S-L00	MIL-PRF-55310	XE66E-L00 XE66B-L00, XE66P-L00	3.3 V	HC / ACMOS / LVTTL	450 KHz - 100.0 MHz	
XE66S-N00	MIL-PRF-55310	XE66E-N00 XE66B-N00, XE66P-N00	2.5 V	HC / ACMOS	450 KHz - 70.0 MHz	