

Automotive

IATF16949/AEC-Q100/AEC-Q200



FREQUENCY CONTROL SPECIALIST

EV Charger



TYPE	PRODUCT	PACKAGE (mm ³)	FREQ. RANGE	OUTPUT	TEMP. RANGE	AEC-Q Qualified
HOT XD	Tuning Fork	2.0 x 1.2 x 0.6	32.768kHz		G1:-40~+125°C	
HOT XD	Tuning Fork	3.2 x 1.5 x 0.9	32.768kHz		G1:-40~+125°C	AEC-Q200
NEW XZ	SMD X'TAL	2.0 x 1.6 x 0.4	16MHz~60MHz		G1:-40~+125°C G2:-40~+105°C	AEC-Q200
HOT XX	SMD X'TAL	3.2 x 2.5 x 0.7	8MHz~60MHz		G1:-40~+125°C G2:-40~+105°C	AEC-Q200
HOT XV	SMD X'TAL	5.0 x 3.2 x 0.8	8MHz~80MHz		G1:-40~+125°C G2:-40~+105°C	AEC-Q200
HOT XR	SMD X'TAL	6.0 x 3.5 x 1.0	8MHz~50MHz		G1:-40~+125°C G2:-40~+105°C	
HOT XI	DIP X'TAL	10.8 x 4.5 x 3.4	3.58MHz~80MHz		G3:-40~+85°C	AEC-Q200
HOT XJ	SMD X'TAL	12.5 x 4.5 x 4.0	3.58MHz~80MHz		G3:-40~+85°C	
HOT OY	SMD XO	2.5 x 2.0 x 0.8	32.768kHz~125MHz	CMOS	G1:-40~+125°C	AEC-Q200
HOT PY-U	SMD XO	2.5 x 2.0 x 0.8	1~200MHz	CMOS	G2:-40~+105°C	
HOT TY	SMD TCXO	2.5 x 2.0 x 0.7	10MHz~52MHz	Clipped Sine Wave	G3:-40~+85°C	AEC-Q200

Data Center of Vehicle



TYPE	PRODUCT	PACKAGE (mm ³)	FREQ. RANGE	OUTPUT	TEMP. RANGE	AEC-Q Qualified
HOT XD	Tuning Fork	3.2 x 1.5 x 0.9	32.768kHz		G1:-40~+125°C G2:-40~+105°C	AEC-Q200
HOT XZ	SMD X'TAL	2.0 x 1.6 x 0.4	16MHz~60MHz		G1:-40~+125°C G2:-40~+105°C	AEC-Q200
NEW XX	SMD X'TAL	3.2 x 2.5 x 0.7	8MHz~60MHz		G1:-40~+125°C G2:-40~+105°C	AEC-Q200
HOT OY	SMD XO	2.5 x 2.0 x 0.8	32.768kHz~125MHz	CMOS	G1:-40~+125°C G2:-40~+105°C	AEC-Q200
HOT PY-U	SMD XO	2.5 x 2.0 x 0.8	1~200MHz	CMOS	G2:-40~+105°C	
HOT OX	SMD XO	3.2 x 2.5 x 0.9	32.768kHz~125MHz	CMOS	G1:-40~+125°C G2:-40~+105°C	AEC-Q200
HOT PX-U	SMD XO	3.2 x 2.5 x 0.9	1~200MHz	CMOS	G2:-40~+105°C	
HOT OA	SMD XO	3.2 x 2.5 x 0.9	10MHz~250MHz 25MHz~175MHz	LVPECL/LVDS HCSL	G1:-40~+125°C G2:-40~+105°C	AEC-Q200
NEW TZ	SMD TCXO	2.0 x 1.6 x 0.7	10MHz~52MHz	Clipped Sine Wave	G3:-40~+85°C	
HOT TY	SMD TCXO	2.5 x 2.0 x 0.7	10MHz~52MHz	Clipped Sine Wave	G3:-40~+85°C	AEC-Q200
HOT TX	SMD TCXO	3.2 x 2.5 x 0.9	10MHz~52MHz	Clipped Sine Wave	G3:-40~+85°C	AEC-Q200

Connected Car (C-V2X)



TYPE	PRODUCT	PACKAGE (mm ³)	FREQ. RANGE	OUTPUT	TEMP. RANGE	AEC-Q Qualified
HOT XD	Tuning Fork	3.2 x 1.5 x 0.9	32.768kHz		G1:-40~+125°C	AEC-Q200
NEW X3	SMD X'TAL	1.6 x 1.2 x 0.3	24MHz~54MHz		G1:-40~+125°C	
NEW XZ	SMD X'TAL	2.0 x 1.6 x 0.4	16MHz~60MHz		G1:-40~+125°C	AEC-Q200
HOT XY	SMD X'TAL	2.5 x 2.0 x 0.4	12MHz~54MHz		G1:-40~+125°C	AEC-Q200
HOT XX	SMD X'TAL	3.2 x 2.5 x 0.7	8MHz~60MHz		G1:-40~+125°C	AEC-Q200
HOT XI	DIP X'TAL	10.8 x 4.5 x 3.4	3.58MHz~80MHz		G3:-40~+85°C	AEC-Q200
HOT XJ	SMD X'TAL	12.5 x 4.5 x 4.0	3.58MHz~80MHz		G3:-40~+85°C	
NEW TZ	SMD TCXO	2.0 x 1.6 x 0.7	10MHz~52MHz	Clipped Sine Wave	G3:-40~+85°C	
HOT TY	SMD TCXO	2.5 x 2.0 x 0.7	10MHz~52MHz	Clipped Sine Wave	G3:-40~+85°C	AEC-Q200
HOT TX	SMD TCXO	3.2 x 2.5 x 0.9	10MHz~52MHz	Clipped Sine Wave	G3:-40~+85°C	AEC-Q200
HOT TK	Metal Cover, FR-4 PCB Based SMD TCXO	14.3 x 9.6 x 6.5	40MHz~150MHz	CMOS/ Clipped Sine Wave	G2:-40~+105°C	

Infotainment within Interior Products

TYPE	PRODUCT	PACKAGE (mm ³)	FREQ. RANGE	OUTPUT	TEMP. RANGE	AEC-Q Qualified
HOT XD	Tuning Fork	3.2 x 1.5 x 0.9	32.768kHz		G1:-40~+125°C G2:-40~+105°C G3:-40~+85°C	AEC-Q200
NEW XZ	SMD X'TAL	2.0 x 1.6 x 0.4	16MHz~60MHz		G2:-40~+105°C	AEC-Q200
HOT XX	SMD X'TAL	3.2 x 2.5 x 0.7	8MHz~60MHz		G1:-40~+125°C	AEC-Q200
Low power OZ-D	SMD XO	2.0 x 1.6 x 0.7	32.768kHz	CMOS	G2:-40~+105°C	
Low power OY-D	SMD XO	2.5 x 2.0 x 0.8	32.768kHz	CMOS	G2:-40~+105°C G3:-40~+85°C	
HOT OX	SMD XO	3.2 x 2.5 x 0.9	32.768kHz~125MHz	CMOS	G1:-40~+125°C	AEC-Q200
HOT PX-U	SMD XO	3.2 x 2.5 x 0.9	1~200MHz	CMOS	G2:-40~+105°C	
NEW TZ	SMD TCXO	2.0 x 1.6 x 0.7	10MHz~52MHz	Clipped Sine Wave	G3:-40~+85°C	
HOT TY	SMD TCXO	2.5 x 2.0 x 0.7	10MHz~52MHz	Clipped Sine Wave	G3:-40~+85°C	AEC-Q200

Advanced Driver Assisted System (ADAS)

TYPE	PRODUCT	PACKAGE (mm ³)	FREQ. RANGE	OUTPUT	TEMP. RANGE	AEC-Q Qualified
HOT XD	Tuning Fork	3.2 x 1.5 x 0.9	32.768kHz		G1:-40~+125°C G2:-40~+105°C	AEC-Q200
NEW XZ	SMD X'TAL	2.0 x 1.6 x 0.4	16MHz~60MHz		G1:-40~+125°C G2:-40~+105°C	AEC-Q200
HOT XX	SMD X'TAL	3.2 x 2.5 x 0.7	8MHz~60MHz		G1:-40~+125°C G2:-40~+105°C	AEC-Q200
HOT XI	DIP X'TAL	10.8 x 4.5 x 3.4	3.58MHz~80MHz		G1:-40~+125°C G2:-40~+105°C	AEC-Q200
HOT XJ	SMD X'TAL	12.5 x 4.5 x 4.0	3.58MHz~80MHz		G1:-40~+125°C G2:-40~+105°C	
NEW OY	SMD XO	2.5 x 2.0 x 0.8	32.768kHz~125MHz	CMOS	G1:-40~+125°C G2:-40~+105°C	AEC-Q200
HOT PY-U	SMD XO	2.5 x 2.0 x 0.8	1~200MHz	CMOS	G2:-40~+105°C	
HOT OX	SMD XO	3.2 x 2.5 x 0.9	32.768kHz~125MHz	CMOS	G1:-40~+125°C G2:-40~+105°C	AEC-Q200
HOT PX-U	SMD XO	3.2 x 2.5 x 0.9	1~200MHz	CMOS	G2:-40~+105°C	
NEW TZ	SMD TCXO	2.0 x 1.6 x 0.7	32.768kHz~125MHz	Clipped Sine Wave	G3:-40~+85°C	
HOT TY	SMD TCXO	2.5 x 2.0 x 0.7	10MHz~52MHz	Clipped Sine Wave	G3:-40~+85°C	AEC-Q200
HOT TX	SMD TCXO	3.2 x 2.5 x 0.9	10MHz~52MHz	Clipped Sine Wave	G3:-40~+85°C	AEC-Q200

LEO Satellite Communications and GNSS Positioning

TYPE	PRODUCT	PACKAGE (mm ³)	FREQ. RANGE	OUTPUT	TEMP. RANGE	AEC-Q Qualified
HOT XD	Tuning Fork	3.2 x 1.5 x 0.9	32.768kHz		G2:-40~+105°C G3:-40~+85°C	AEC-Q200
NEW XZ	SMD X'TAL	2.0 x 1.6 x 0.4	16MHz~60MHz		G1:-40~+125°C	AEC-Q200
HOT XX	SMD X'TAL	3.2 x 2.5 x 0.7	8MHz~60MHz		G1:-40~+125°C	AEC-Q200
NEW TZ	SMD TCXO	2.0 x 1.6 x 0.7	10MHz~52MHz	Clipped Sine Wave	G3:-40~+85°C	
HOT TY	SMD TCXO	2.5 x 2.0 x 0.7	10MHz~52MHz	Clipped Sine Wave	G3:-40~+85°C	AEC-Q200
HOT TY-J	SMD TCXO	2.5 x 2.0 x 0.8	9.5MHz~60MHz	CMOS	G2:-40~+105°C	AEC-Q200
HOT TL <small>High Precision Stratum3</small>	SMD TCXO	5.0 x 3.2 x 1.8	5MHz~52MHz	CMOS/Clipped Sine Wave	G3:-40~+85°C	
HOT TW	SMD TCXO	5.0 x 3.2 x 1.8	10MHz~52MHz	CMOS/Clipped Sine Wave	G3:-40~+85°C	
HOT TT <small>High Precision Stratum3</small>	SMD TCXO	7.0 x 5.0 x 1.9	5MHz~52MHz	Clipped Sine Wave	G3:-40~+85°C	
NEW TT-L	SMD TCXO	7.0 x 5.0 x 2.3	10MHz~52MHz	CMOS/Clipped Sine Wave	G3:-40~+85°C	
HOT TK	Metal Cover, FR-4 PCB Based SMD TCXO	14.3 x 9.6 x 6.5	40MHz~150MHz	CMOS/Clipped Sine Wave	G3:-40~+85°C	



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