

PRODUCT AND PROCESS CHANGE NOTIFICATION

SERIAL NO: 0385

RAISED BY: Charlotte Goddard

DATE: 09 Feb. 23

CUSTOMER: Various

PRODUCT:

IQXT-220 3.2 x 2.5mm 3.3V & 1.8V VC/TCXOs, including:
 IQXT-220-1, IQXT-220-2, IQXT-220-3, IQXT-220-4, IQXT-220-5, IQXT-220-6, IQXT-220-7, IQXT-220-8,
 IQXT-220-9, IQXT-220-10, IQXT-220-11, IQXT-220-12, IQXT-220-13, IQXT-220-14

PART NUMBER(S): See 'PCN0385 PN List.xls'

CURRENT PRODUCT/PROCESS:

All products have an MSL of 2, with the exception of IQXT-220-10 which is MSL-3.

PROPOSED CHANGE:

The MSL level of the parts will be lowered to 1.

REASON FOR CHANGE:

It was determined that MSL level could be reduced with no adverse effect to the functionality of the devices.

EXPECTED EFFECT ON PERFORMANCE:

The floor life of the components outside of the packaging is unlimited.

EXPECTED EFFECT ON RELIABILITY:

None

COMMENTS:

Table 3-1 Dry-Packing Requirements

Level	Dry Before Bag	MBB With HIC	Desiccant	MSID Label	Caution Label
1	Optional	Optional	Optional	Not Required	Not Required if classified at 220 °C – 225 °C Required* if classified at other than 220 °C – 225 °C

Ref: J-STD-033

IMPLEMENTATION DATE:

09 February 2023

AUTHORISED BY:



C. Goddard
 Quality Manager
 09 February 2023

Part No.	Freq	Model	Specification	Tol	Stab	Min Temp	Max Temp
LFTVXO084398Cutt	40.0MHz	IQXT-220-10	Clipped Sine ±0.5ppm -40 to 85C 3.3V ±5ppm min	1.00	0.50	-40.00	85.00
LFTVXO084398Reel	40.0MHz	IQXT-220-10	Clipped Sine ±0.5ppm -40 to 85C 3.3V ±5ppm min	1.00	0.50	-40.00	85.00
LFTCXO084513Reel	24.0MHz	IQXT-220-11	Clipped Sine ±0.5ppm -30 to 85C 3.3V	1.00	0.50	-30.00	85.00
LFTCXO084513Cutt	24.0MHz	IQXT-220-11	Clipped Sine ±0.5ppm -30 to 85C 3.3V	1.00	0.50	-30.00	85.00
LFTVXO085532Cutt	50.0MHz	IQXT-220-12	Clipped Sine ±0.5ppm -40 to 85C 3.3V ±6ppm min to ±15ppm max	1.00	0.50	-40.00	85.00
LFTVXO085532Reel	50.0MHz	IQXT-220-12	Clipped Sine ±0.5ppm -40 to 85C 3.3V ±6ppm min to ±15ppm max	1.00	0.50	-40.00	85.00
LFTVXO085893Reel	20.0MHz	IQXT-220-13	Clipped Sine ±1ppm -40 to 85C 3.3V	1.00	1.00	-40.00	85.00
LFTVXO085893Cutt	20.0MHz	IQXT-220-13	Clipped Sine ±0.2ppm -40 to 85C 3.3V	1.00	0.20	-40.00	85.00
LFTVXO076153Cutt	12.0MHz	IQXT-220-3	Clipped Sine ±0.5ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.50	-40.00	85.00
LFTVXO076153Reel	12.0MHz	IQXT-220-3	Clipped Sine ±0.5ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.50	-40.00	85.00
LFTCXO076830Bulk	38.40MHz	IQXT-220-4	Clipped Sine ±0.28ppm -15 to 85C 3.3V	1.00	0.28	-15.00	85.00
LFTCXO076830Cutt	38.40MHz	IQXT-220-4	Clipped Sine ±0.28ppm -15 to 85C 3.3V	1.00	0.28	-15.00	85.00
LFTVXO080856Cutt	25.0MHz	IQXT-220-5	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±5ppm min	1.00	0.28	-40.00	85.00
LFTVXO080856Reel	25.0MHz	IQXT-220-5	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±5ppm min	1.00	0.28	-40.00	85.00
LFTVXO081753Reel	35.0MHz	IQXT-220-6	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±5ppm min	1.00	0.28	-40.00	85.00
LFTVXO081753Cutt	35.0MHz	IQXT-220-6	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±5ppm min	1.00	0.28	-40.00	85.00
LFTVXO081755Reel	40.0MHz	IQXT-220-7	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±5ppm min	1.00	0.28	-40.00	85.00
LFTVXO081755Cutt	40.0MHz	IQXT-220-7	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±5ppm min	1.00	0.28	-40.00	85.00
LFTCXO082520Cutt	24.0MHz	IQXT-220-9	Clipped Sine ±0.5ppm -40 to 85C 1.8V	1.50	0.50	-40.00	85.00
LFTCXO075792Reel	10.0MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075792Bulk	10.0MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075792Cutt	10.0MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075793Cutt	12.80MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075793Reel	12.80MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075793Bulk	12.80MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075794Bulk	16.320MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075794Reel	16.320MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075794Cutt	16.320MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075795Cutt	16.3840MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075795Reel	16.3840MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075795Bulk	16.3840MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075796Reel	19.20MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075796Bulk	19.20MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075796Cutt	19.20MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075797Cutt	20.0MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075797Reel	20.0MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075797Bulk	20.0MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075798Reel	30.720MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075798Cutt	30.720MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075798Bulk	30.720MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075799Cutt	32.7680MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075799Bulk	32.7680MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075799Reel	32.7680MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075800Bulk	38.880MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075800Reel	38.880MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075800Cutt	38.880MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075801Bulk	40.0MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075801Reel	40.0MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTCXO075801Cutt	40.0MHz	IQXT-220-1	Clipped Sine ±0.28ppm -40 to 85C 3.3V	1.00	0.28	-40.00	85.00
LFTVXO075802Reel	10.0MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075802Cutt	10.0MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075802Bulk	10.0MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075962Reel	12.0MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075962Bulk	12.0MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075803Reel	12.80MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075803Bulk	12.80MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075803Cutt	12.80MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075804Bulk	16.320MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075804Cutt	16.320MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075804Reel	16.320MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075805Reel	16.3840MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075805Bulk	16.3840MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075805Cutt	16.3840MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075806Bulk	19.20MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075806Cutt	19.20MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075806Reel	19.20MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075807Reel	20.0MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075807Cutt	20.0MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075807Bulk	20.0MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075808Bulk	30.720MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075808Reel	30.720MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075808Cutt	30.720MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075809Bulk	32.7680MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075809Reel	32.7680MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075809Cutt	32.7680MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075810Reel	38.880MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00
LFTVXO075810Cutt	38.880MHz	IQXT-220-2	Clipped Sine ±0.28ppm -40 to 85C 3.3V ±10ppm min to ±15ppm max	1.00	0.28	-40.00	85.00

LFTVXO075810Bulk	38.880MHz	IQXT-220-2	Clipped Sine $\pm 0.28\text{ppm}$ -40 to 85C 3.3V $\pm 10\text{ppm}$ min to $\pm 15\text{ppm}$ max	1.00	0.28	-40.00	85.00
LFTVXO075811Cutt	40.0MHz	IQXT-220-2	Clipped Sine $\pm 0.28\text{ppm}$ -40 to 85C 3.3V $\pm 10\text{ppm}$ min to $\pm 15\text{ppm}$ max	1.00	0.28	-40.00	85.00
LFTVXO075811Reel	40.0MHz	IQXT-220-2	Clipped Sine $\pm 0.28\text{ppm}$ -40 to 85C 3.3V $\pm 10\text{ppm}$ min to $\pm 15\text{ppm}$ max	1.00	0.28	-40.00	85.00
LFTVXO075811Bulk	40.0MHz	IQXT-220-2	Clipped Sine $\pm 0.28\text{ppm}$ -40 to 85C 3.3V $\pm 10\text{ppm}$ min to $\pm 15\text{ppm}$ max	1.00	0.28	-40.00	85.00
LFTVXO086068Reel	19.20MHz	IQXT-220-14	Clipped Sine $\pm 0.28\text{ppm}$ -40 to 85C 3.3V $\pm 10\text{ppm}$ min to $\pm 15\text{ppm}$ max	1.00	0.28	-40.00	85.00