

# FEATURES

PETERMANN

TECHNIK

Time & Frequency Components

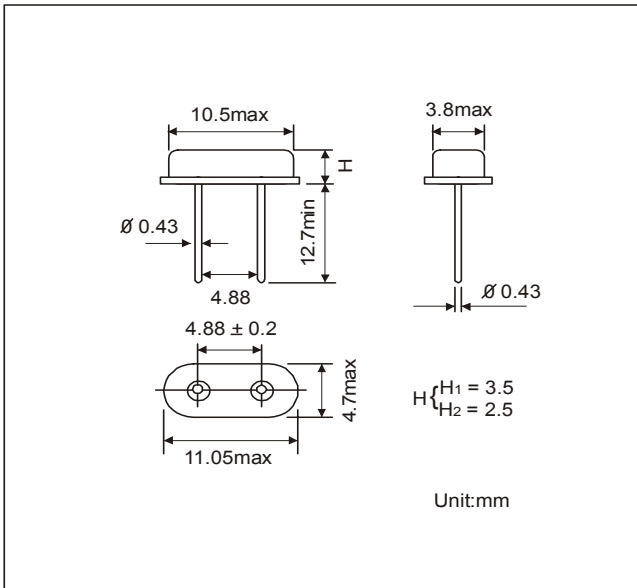
- HIGH RELIABILITY FOR LOW COST
- LOW PROFILE - 3.2 MM MAX. PACKAGE HEIGHT
- EXTENDED TEMPERATURE RANGE TO -40/+125°C
- TUNABLE WITH EXTERNAL CAPACITY
- CHEAPEST AVAILABLE SMD-CRYSTAL
- EXCELLENT CLOCK SIGNAL GENERATOR FOR CPU'S
- QUALIFIED FOR QUOTMOTIVE APPLICATIONS

PROCESSOR TYPE		TEXAS INSTRUMENTS TMX 320AV7110 GFN
SERIES		HC-49/US
PACKAGE HEIGHT	STANDARD	3.5 MM MAX.
	OPTION	2.5 MM MAX.
NUMBER OF LEADS	STANDARD	2
	OPTION	3
FREQUENCY		27.000 MHz
MODE OF VIBRATION		AT-FUNDAMENTAL
RESONANCE RESISTANCE		40 Ω MAX.
FREQUENCY TOLERANCE AT 25°C		+30 PPM
WORKING TEMPERATURE RANGE		0/+70°C
OPERABLE TEMPERATURE RANGE		-30/+80°C
TEMPERATURE STABILITY		+50 PPM
LOAD CAPACITANCE		30 pF
PULLING RANGE		15 pF ~ 45 pF = MIN. +20 ~ +40 PPM
SHUNT CAPACITANCE		7 PF MAX.
DRIVE LEVEL		0.1 mW
AGING		+5 PPM MAX. PER YEAR
INSULATION RESISTANCE		>500 MΩ DC/100V +-10%
DELIVERY FORM	STANDARD	BULKS
	OPTION	TAPE AND REEL (1.000 PCS PER REEL)
INSULATOR	STANDARD	WITHOUT INSULATOR
	OPTION	WITH INSULATOR
OTHER PARAMETERS ARE AVAILABLE ON REQUEST / CREATE HERE YOUR SPECIFICATION		

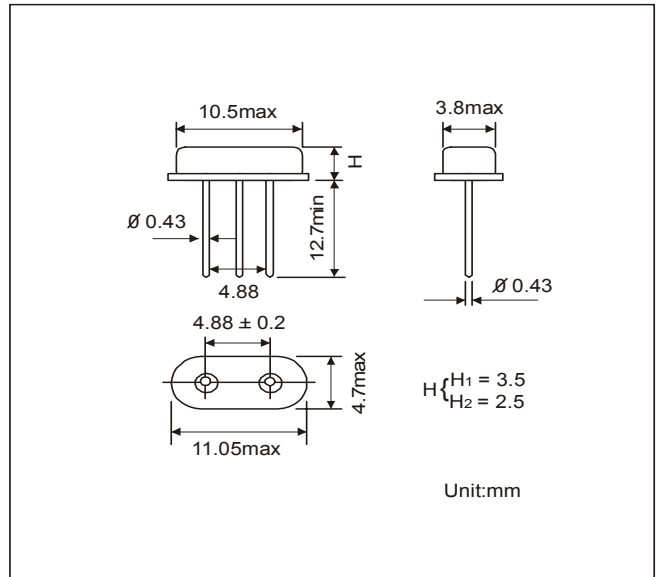
## PART NUMBERING SYSTEM

EXAMPLE	HC-49/US 27.000 MHz T/I/TMX320AV7110GFN
TYPE	HC-49/US FOR TYPE WITH 2 LEADS
	HC-49/3US FOR TYPE WITH 3 LEADS
PACKAGE HEIGHT	BLANK FOR 3.5 MM
	2.5 FOR 2.5 MM
DELIVERY FORM	BLANK FOR BULKS
	T FOR TAPE AND REEL
INSULATOR	BLANK = WITHOUT INSULATOR
	I = WITH INSULATOR
PROCESSOR TYPE	TEXAS INSTRUMENTS TMX 320AV7110 GFN

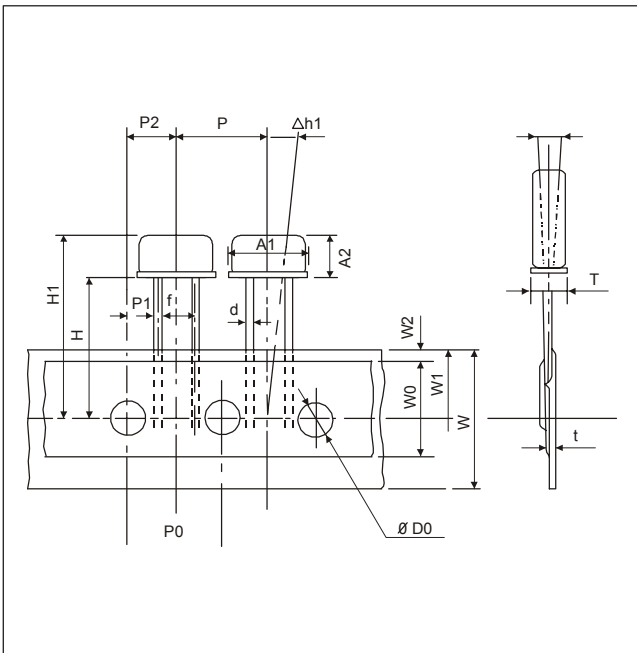
### OUTLINE DRAWING OF HC-49/US



### OUTLINE DRAWING OF HC-49/3US



### REEL SPECIFICATION



Description	Symbol	Dimensions
Outside Diameter of Part	A1xA2	11.1x3.5
Thickness of Part	T	5.0max
Lead Wire Diameter	d	$\varnothing 0.43^{+0.05}_{-0.02}$
Interval Spacing of Part	P	12.7±1.0
Pitch fo Leading Hole	P0	12.7±1.0
	P1	3.85±0.7
Tolerance of Leading Hole	P2	6.35±1.0
	F	5.0 <sup>+0.5</sup> <sub>-0.2</sub>
Lead Pitch	F	5.0 <sup>+0.5</sup> <sub>-0.2</sub>
Inclination	$\Delta h$	0±1.0
Tape Width	W	18.2±0.2
Adhesive Tape Width	W0	13.0 <sup>+0.8</sup> <sub>-0.2</sub>
Tolerance of Leading Hole(Vertical)	W1	9.0±0.5
Tolerance of Cover Tape	W2	2.0max
Bottom Surface Position of Part	H	20.5±0.5
Top Surface Position of Part	H1	24.0max
Hole Diameter	D0	$\varnothing 4.0 \pm 0.2$
Tape Thickness	t	0.7±0.1
Inclination	$\Delta h1$	0±1.0

Unit:mm