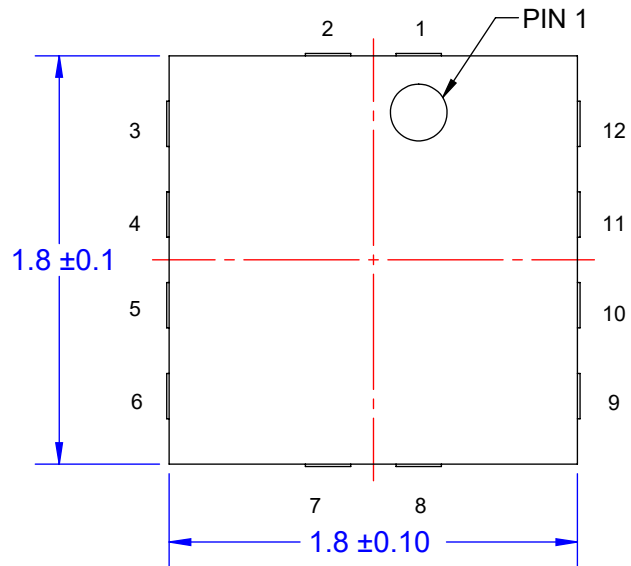
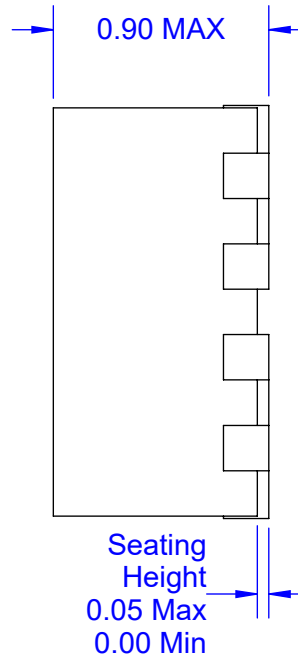


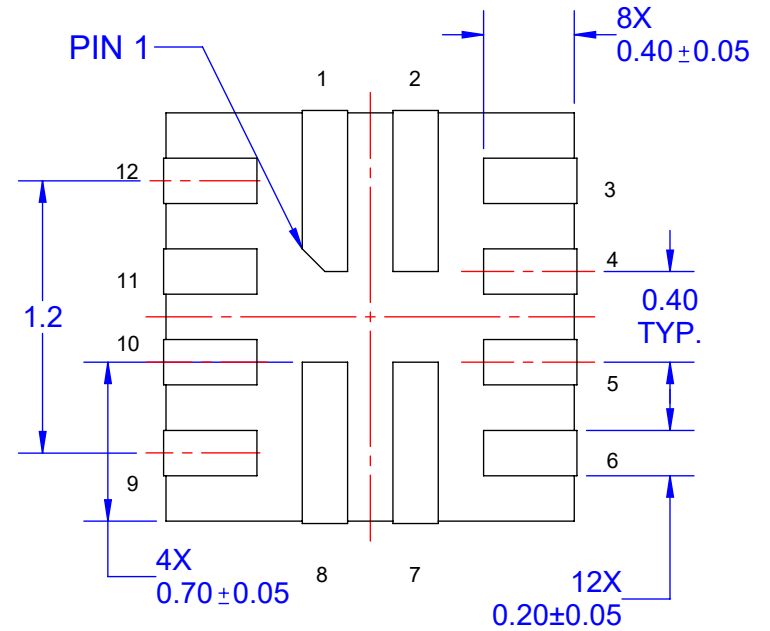
### TOP VIEW



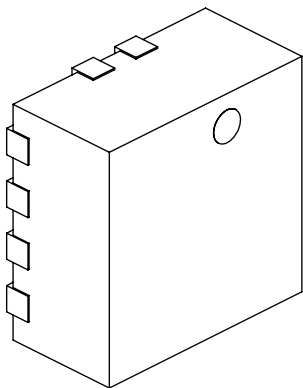
### SIDE VIEW



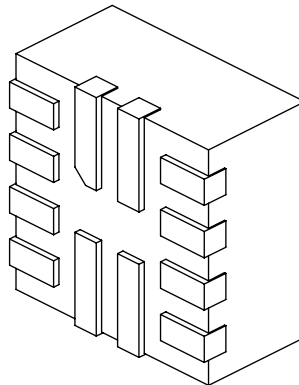
### BOTTOM VIEW



### MODEL



TOP



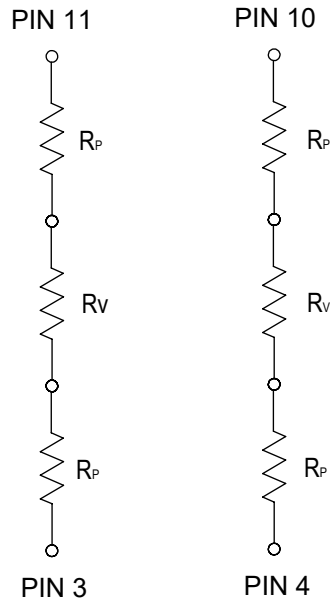
BOTTOM

Notes: (Unless Otherwise Specified).

- 1) DIMENSIONS: mm.
- 2) BODY: PLASTIC.
- 3) PADS: COPPER with NiAu PLATING.
- 4) ZERO OHM JUMPER PINS 3~11 and 4~10.

APPROVALS	DATE	<b>TopLine®</b>			
DRAWN T. Au	05/25/2021				
ENG M. Hart	05/25/2021	TITLE QFN12-DC311 JUMPER 12-LEAD 1.8x1.8mm P0.4mm			
MFG		SCALE	SIZE	DRAWING NO.	REV
QA		30:1	A	441201	A
CUST		DO NOT SCALE DRAWING			SHEET 1 OF 7
REVISED					

### SCHEMATIC EQUIVALENT INTERNAL CIRCUIT (DC311)



$R_v$  = FILLED VIA.  
 $R_p$  = LEAD FRAME PADS.

ELECTRICAL RESISTANCE MILIOHM (DC) MAX	
CIRCUIT	PIN TO PIN
3 ~ 11	50 mΩ
4 ~ 10	50 mΩ

OTHER PINS ARE OPEN CIRCUIT

TEMPERATURE RATING	
JUNCTION TEMP $T_j$	150°C
STORAGE TEMP $T_{stg}$	-65°C TO 150°C
OPERATING TEMP	-65°C TO 150°C
PEAK REFLOW TEMP $T_{reflow}$ 10 SECONDS	260°C

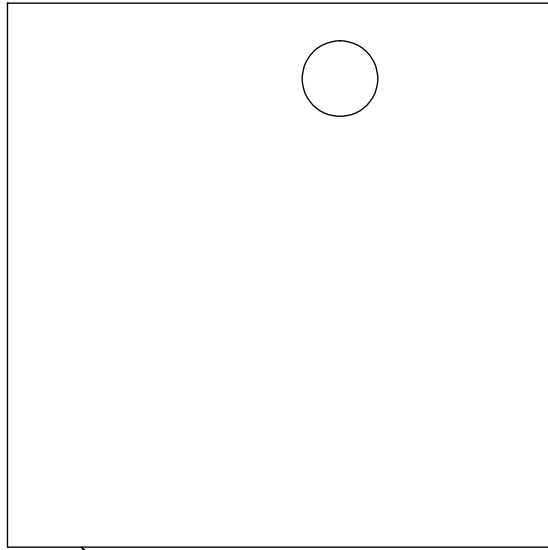
MAXIMUM ELECTRICAL (DC) RATING PER PIN	
WORKING VOLTAGE	100 V
CURRENT RATING	100mA
POWER @ 25°C	350 mW

THERMAL RESISTANCE	
JUNCTION TO AMBIENT ( $T_a=25^\circ$ ) $R_{th(j-a)}$	350K/W

<b>TopLine®</b>			
TITLE QFN12-DC311 JUMPER 12-LEAD 1.8x1.8mm P0.4mm			
SCALE	SIZE	DRAWING NO.	REV
NONE	A	441201	A
DO NOT SCALE DRAWING			SHEET 2 OF 7

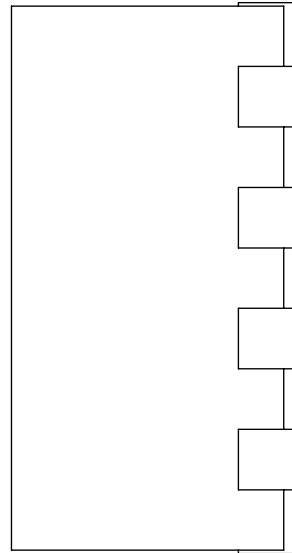
# PAD PATTERN

## TOP VIEW

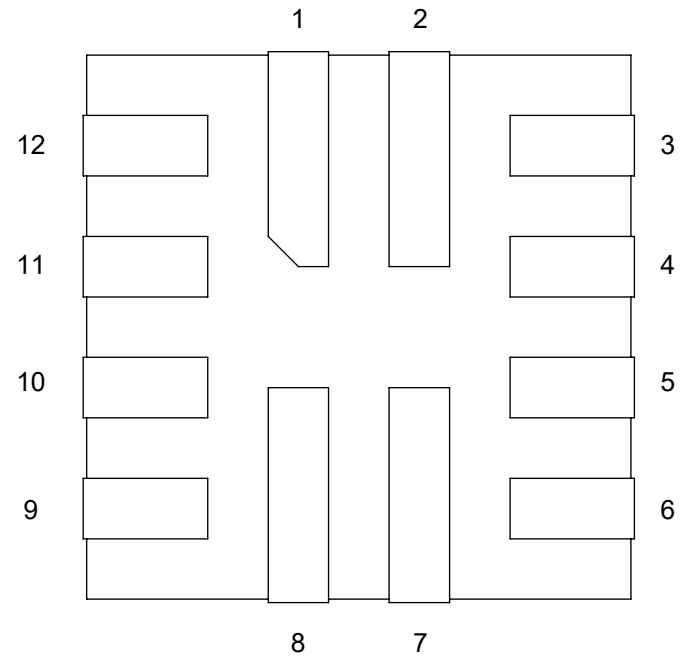


TOP SIDE  
ENCAPSULATION

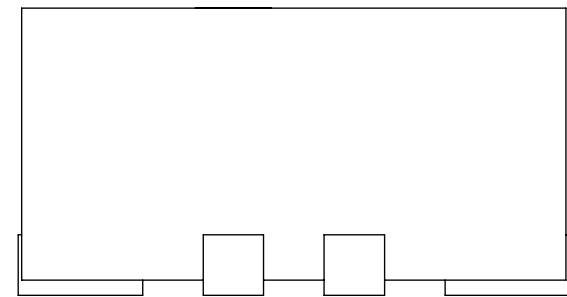
## SIDE VIEW



## BOTTOM VIEW



## EDGE VIEW



NOTE:  
1. INTERNAL ZERO OHM JUMPER PINS 3~11 AND 4~10.

**TopLine®**

TITLE QFN12-DC311 JUMPER  
12-LEAD 1.8x1.8mm P0.4mm

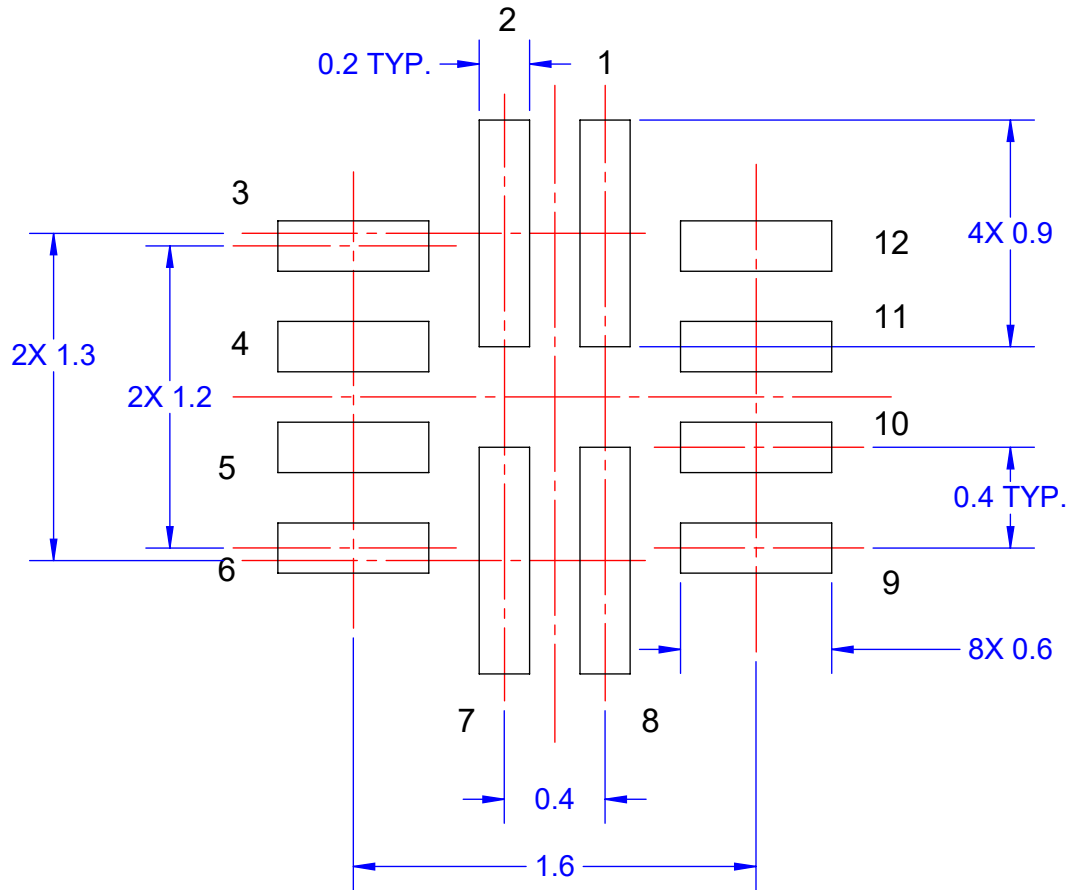
SCALE 40:1	SIZE A	DRAWING NO. 441201	REV A
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DO NOT SCALE DRAWING

SHEET 3 OF 7



## EXAMPLE STENCIL DESIGN (NOTE D & E)



Notes:

A. DIMENSIONS mm.

D. MAXIMUM STENCIL THICKNESS  
0.1mm (4 MILS).

E. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their stencil house for stencil design recommendations. Refer to IPC 7525 for stencil design considerations.

**TopLine®**

TITLE      QFN12-DC311 JUMPER  
12-LEAD 1.8x1.8mm P0.4mm

SCALE	SIZE	DRAWING NO.	REV
33:1	A	441201	A

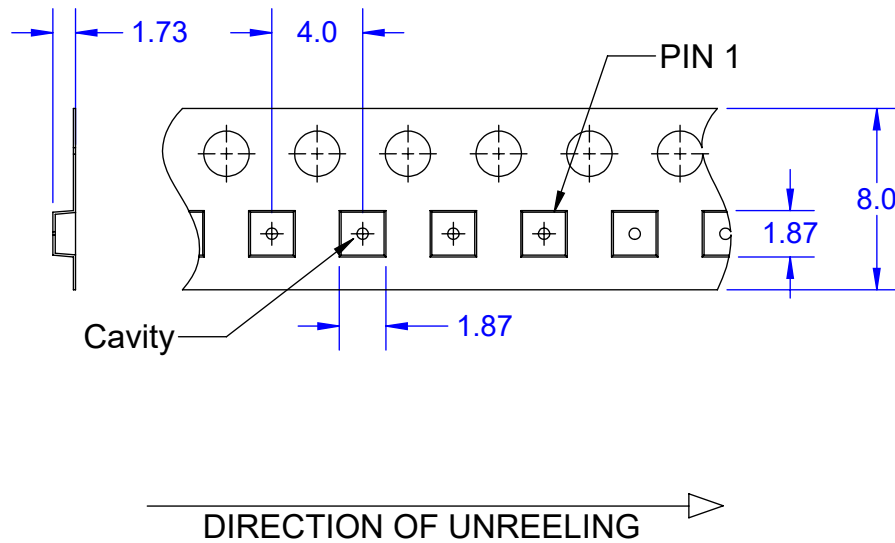
DO NOT SCALE DRAWING

SHEET 5 OF 7

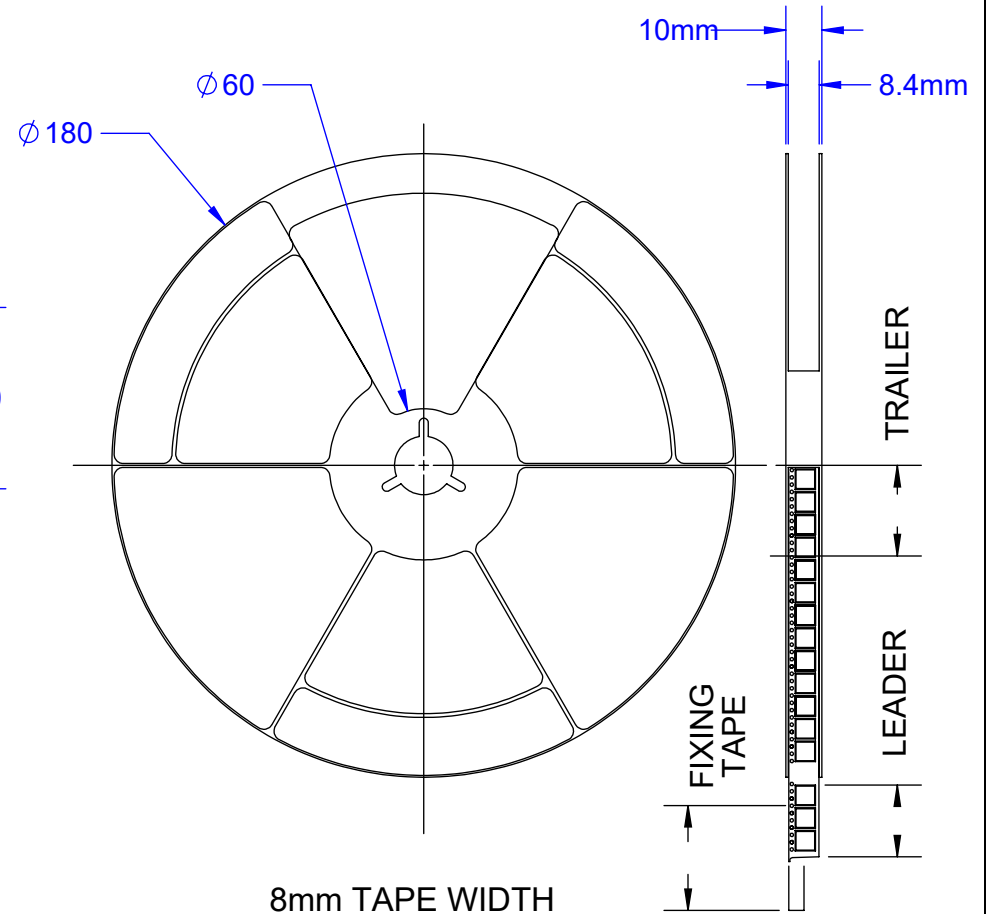
# TAPE SPECIFICATION

## QFN 1.8 x 1.8mm

### TAPE DIMENSIONS



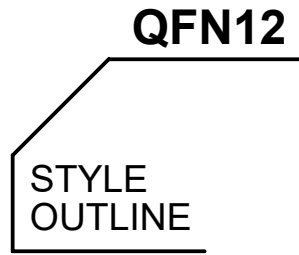
### PACKAGE REEL



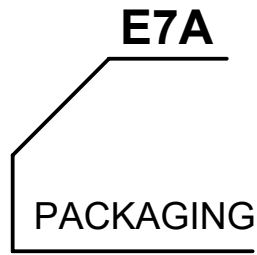
- Notes:
- 1) ALL DIMENSIONS IN mm
  - 2) CARRIER TAPE DIMENSIONS SUBJECT TO CHANGE.

<b>TopLine<sup>®</sup></b>			
TITLE QFN12-DC311 JUMPER 12-LEAD 1.8x1.8mm P0.4mm			
SCALE NONE	SIZE A	DRAWING NO. 441201	REV A
DO NOT SCALE DRAWING		SHEET 6 OF 7	

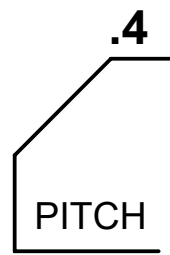
## PART NUMBERING SYSTEM



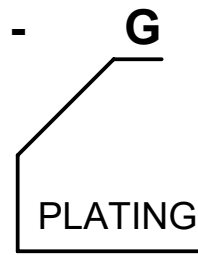
QUAD FLAT  
NO LEAD  
12 PIN



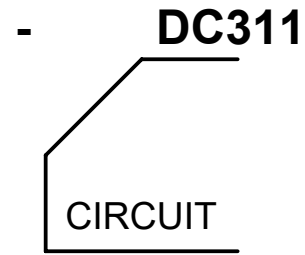
E = CUT TAPE  
E7A = 7" REEL  
E13A = 13" REEL



.4 = 0.4MM



G = NiAu  
ENIG



DC311 =  
ZERO OHM JUMPER  
PIN 3~11  
PIN 4~10

PART NUMBER	JUMPER CIRCUIT	PACKAGING	RoHS Pb-FREE	MSL LEVEL
QFN12E7A.4-G-DC311	3~11 4~10	7-INCH TAPE & REEL	YES	3
QFN12E.4-G-DC311	3~11 4~10	CUT TAPE	YES	3

OTHER PART NUMBER COMBINATIONS AVAILABLE. CONTACT TOPLINE.

<b>TopLine®</b>			
TITLE QFN12-DC311 JUMPER 12-LEAD 1.8x1.8mm P0.4mm			
SCALE NONE	SIZE A	DRAWING NO. 441201	REV A
DO NOT SCALE DRAWING			SHEET 7 OF 7