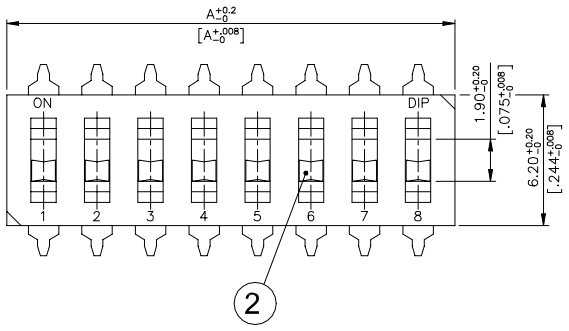
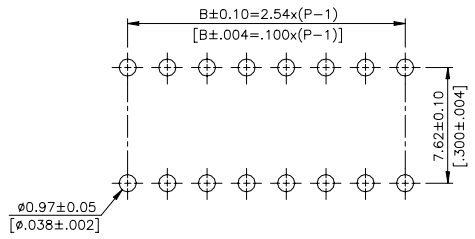
NDI(R),DM(R)&DJ(R) SERIES

DIMENSIONS

NDI(R)

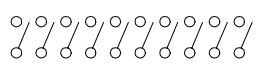




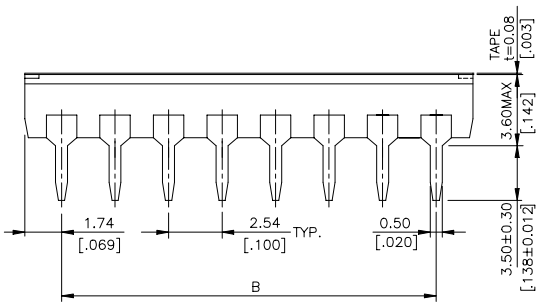
P.C.B. LAYOUT

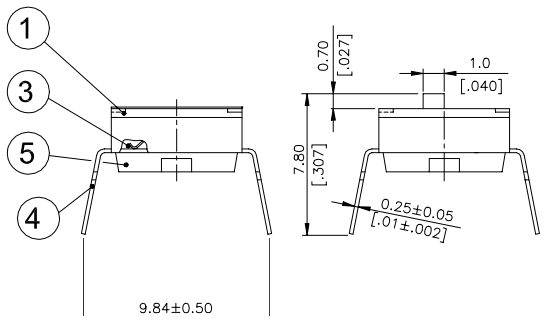
PROD. NO.	NO. OF POS.	DIM. A	DIM. B
NDI -12□(P) NDIR-12□(P)	12	31.42[1.237]	27.94[1.100]
NDI -10□(P) NDIR-10□(P)	10	26.34[1.037]	22.86[.900]
NDI -09□(P) NDIR-09□(P)	9	23.80[.937]	20.32[.800]
NDI -08□(P) NDIR-08□(P)	8	21.26[.837]	17.78[.700]
NDI -07□(P) NDIR-07□(P)	7	18.72[.737]	15.24[.600]
NDI -06□(P) NDIR-06□(P)	6	16.18[.637]	12.70[.500]
NDI -05□(P) NDIR-05□(P)	5	13.64[.537]	10.16[.400]
NDI -04□(P) NDIR-04□(P)	4	11.10[.437]	7.62[.300]
NDI -03□(P) NDIR-03□(P)	3	8.56[.337]	5.08[.200]
NDI -02□(P) NDIR-02□(P)	2	6.02[.237]	2.54[.100]
NDI -01□(P) NDIR-01□(P)	1	3.48[.137]	—

SCHEMATIC(TYP.)

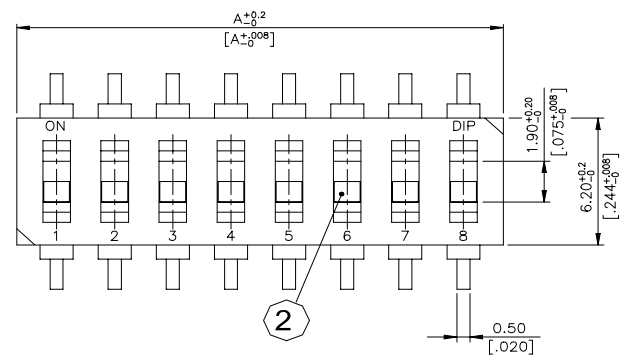


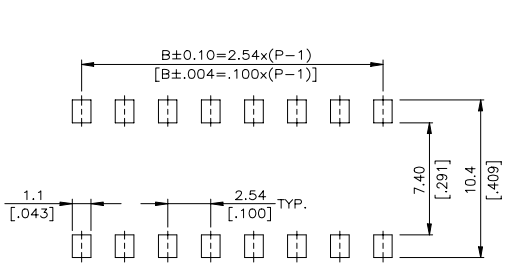
(1,2,3,4,5,6,7,8,9,10,12,POS AVAIL)





DM(R)



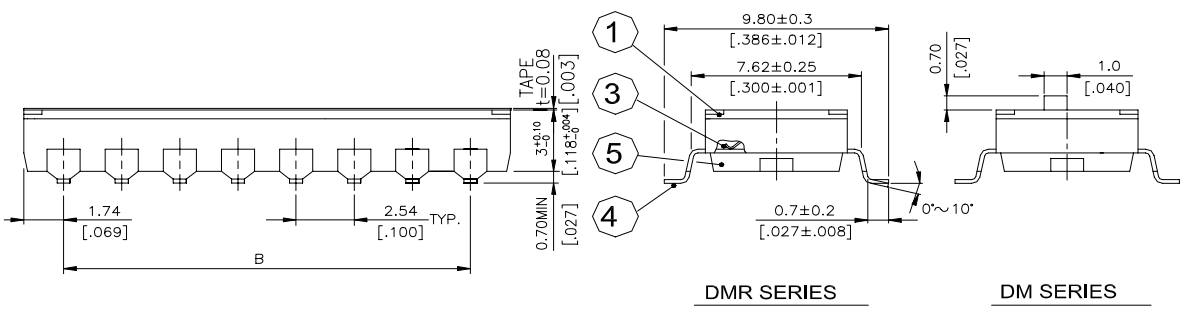


P.C.B. LAYOUT

PROD. NO.	NO. OF POS.	DIM. A	DIM. B
DM -12(A)(P) DMR-12(A)(P)	12	31.42[1.237]	27.94[1.100]
DM -10(A)(P) DMR-10(A)(P)	10	26.34[1.037]	22.86[.900]
DM -09(A)(P) DMR-09(A)(P)	9	23.80[.937]	20.32[.800]
DM -08(A)(P) DMR-08(A)(P)	8	21.26[.837]	17.78[.700]
DM -07(A)(P) DMR-07(A)(P)	7	18.72[.737]	15.24[.600]
DM -06(A)(P) DMR-06(A)(P)	6	16.18[.637]	12.70[.500]
DM -05(A)(P) DMR-05(A)(P)	5	13.64[.537]	10.16[.400]
DM -04(A)(P) DMR-04(A)(P)	4	11.10[.437]	7.62[.300]
DM -03(A)(P) DMR-03(A)(P)	3	8.56[.337]	5.08[.200]
DM -02(A)(P) DMR-02(A)(P)	2	6.02[.237]	2.54[.100]
–	–	–	–

SCHEMATIC(TYP.)

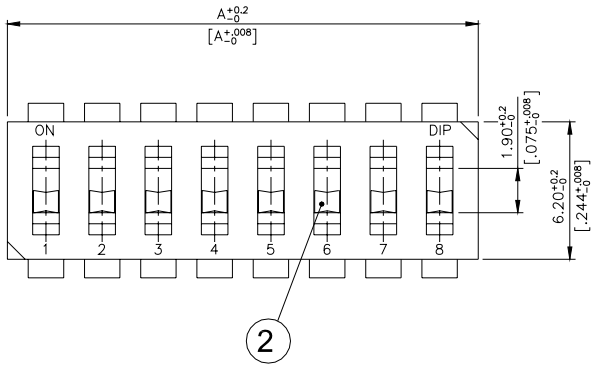
(1,2,3,4,5,6,7,8,9,10,12,POS AVAIL)

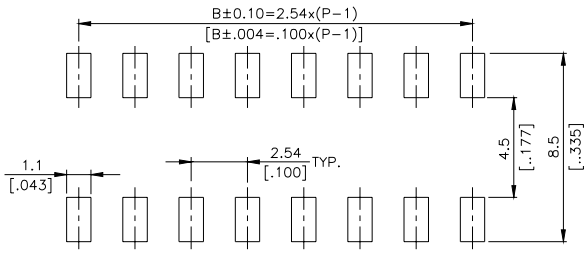


DMR SERIES

DM SERIES

DJ(R)



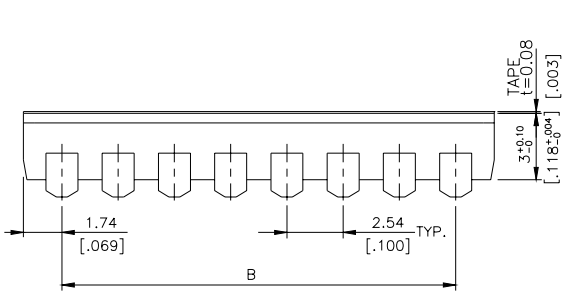


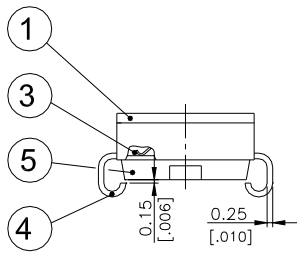
P.C.B. LAYOUT

PROD. NO.	NO. OF POS.	DIM. A	DIM. B
DJ -12 DJR-12	12	31.42[1.237]	27.94[1.100]
DJ -10 DJR-10	10	26.34[1.037]	22.86[.900]
DJ -09 DJR-09	9	23.80[.937]	20.32[.800]
DJ -08 DJR-08	8	21.26[.837]	17.78[.700]
DJ -07 DJR-07	7	18.72[.737]	15.24[.600]
DJ -06 DJR-06	6	16.18[.637]	12.70[.500]
DJ -05 DJR-05	5	13.64[.537]	10.16[.400]
DJ -04 DJR-04	4	11.10[.437]	7.62[.300]
DJ -03 DJR-03	3	8.56[.337]	5.08[.200]
DJ -02 DJR-02	2	6.02[.237]	2.54[.100]

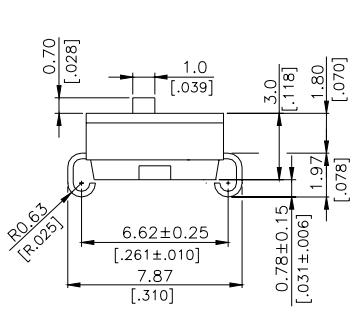
SCHEMATIC(TYP.)

(1,2,3,4,5,6,7,8,9,10,12,POS AVAIL)



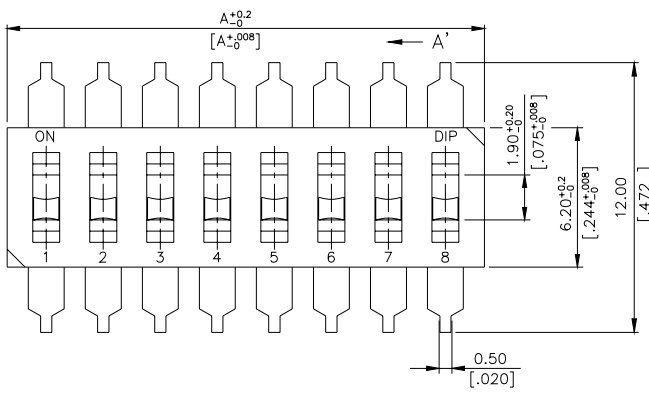


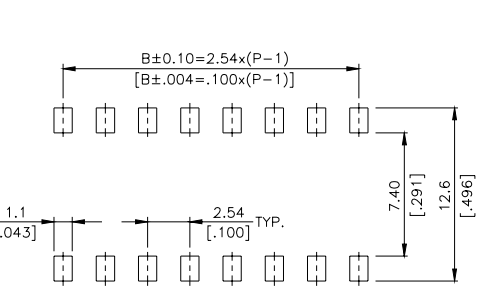
DJR SERIES



DJ SERIES

DL(R)



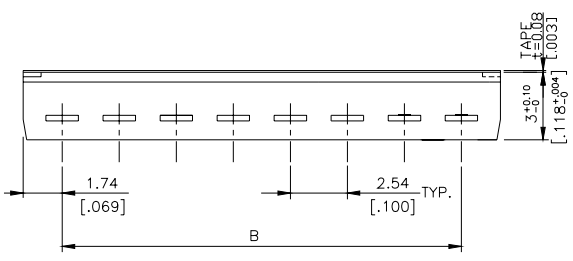


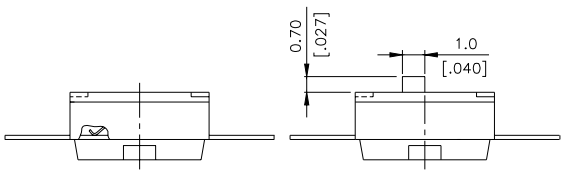
P.C.B. LAYOUT

PROD. NO.	NO. OF POS.	DIM. A	DIM. B
DL -12(A) (P) DLR-12(A) (P)	12	31.42[1.237]	27.94[1.100]
DL -10(A) (P) DLR-10(A) (P)	10	26.34[1.037]	22.86[.900]
DL -09(A) (P) DLR-09(A) (P)	9	23.80[.937]	20.32[.800]
DL -08(A) (P) DLR-08(A) (P)	8	21.26[.837]	17.78[.700]
DL -07(A) (P) DLR-07(A) (P)	7	18.72[.737]	15.24[.600]
DL -06(A) (P) DLR-06(A) (P)	6	16.18[.637]	12.70[.500]
DL -05(A) (P) DLR-05(A) (P)	5	13.64[.537]	10.16[.400]
DL -04(A) (P) DLR-04(A) (P)	4	11.10[.437]	7.62[.300]
DL -03(A) (P) DLR-03(A) (P)	3	8.56[.337]	5.08[.200]
DL -02(A) (P) DLR-02(A) (P)	2	6.02[.237]	2.54[.100]
DL -01(A) (P) DLR-01(A) (P)	2	3.48[.137]	

SCHEMATIC(TYP.)

(1,2,3,4,5,6,7,8,9,10,12,POS AVAIL)





DLR SERIES

DL SERIES

HOW TO ORDER

☐ ☐ ☐ ☐ – ☐ ☐- ☐ - ☐ - ☐

Package Style:
☐ = Tube
T/R= Tape & Reel

Soldering:
V = Lead Free Solderable

Seal:
☐ = Regular
T = Top Tape Seated

Shape of Terminal:
☐ = Regular
S = Splay Terminal
H = Straight Terminal

Number Of Positions:
01 = 1 Position
02 = 2 Position
03 = 3 Position
04 = 4 Position
05 = 5 Position
06 = 6 Position
07 = 7 Position
08 = 8 Position
09 = 9 Position
10 = 10 Position
12 = 12 Position

Actuator Type:
☐ = Raised Actuator
R = Recessed Actuator

NDI = Machine Insertable Type Dip Switch
DM = Surface Mounting Type Dip Switch
DJ = Surface Mounting Type Dip Switch
DL = Flat Terminal S.M.T

``

SPECIFICATION

△MECHANICAL
Mechanical Life: 2,000 operations per switch.
Operation Force: 1,000gf max.
Stroke: 1.0 mm
Operation Temp: -20℃ to +85℃
Storage Temperature: -40℃ to +85℃

△ELECTRICAL
Electrical Life: 2,000 operations min. per switch 24VDC, 25mA
Non-switching Rating: 100mA, 50VDC
Switching Rating: 25mA, 24VDC
Contact resistance: (a) 50mΩ max. at initial
(b) 100mΩ max. after life test
Insulation Resistance: 100MΩ min. 500VDC
Dielectric Strength: 500VAC/ minute
Capacitance: 5pF max.
Circuit: Single pole single throw.

MATERIALS

△BASE & COVER: UL94V-0 PPS High-Temp. Thermoplastic, Color: Black
△ACTUATOR: UL94V-0 Nylon Thermoplastic（Standard）
UL94V-0 Nylon High–Temp Thermoplastic
（V-option only for DM(R)、DL(R)、DJ(R)）
Color: White
△CONTACT: Alloy Copper with gold plated
△TERMINAL: Brass with gold plated
▲CONTACT PLATING: Gold plated over nickel.

▲TERMINAL PLATING: Gold plated
△TAPE : KAPTON

SOLDERING AND CLEANING PROCESSES

For best results, please follow these recommendation:

△Keep all switch contacts in their "OFF" position for all Operations

△WAVE SOLDERING: Recommended solder temperature at 500℉(260℃) max. of 5 seconds for through hole type.

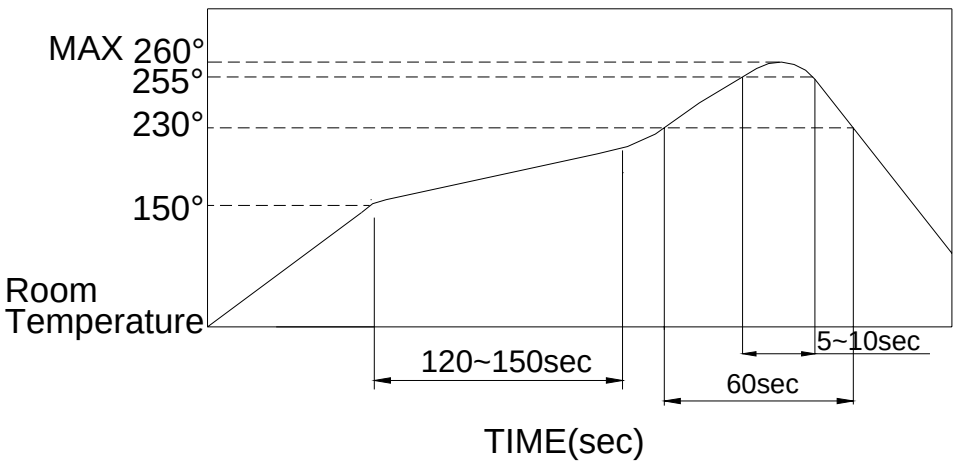
△HAND SOLDERING : Use a soldering iron of 30 watts, controlled at 350℃ approximately 5 seconds.

△REFLOW SOLDERING: When applying reflow soldering, the peak temperature or the reflow Oven should be set at 260℃max.

△Any flux enters the switch may fail the conductivity.

△Do not clean the switch body except top tape sealed type, which only suitable for spray cleaning method from top of the s/w.

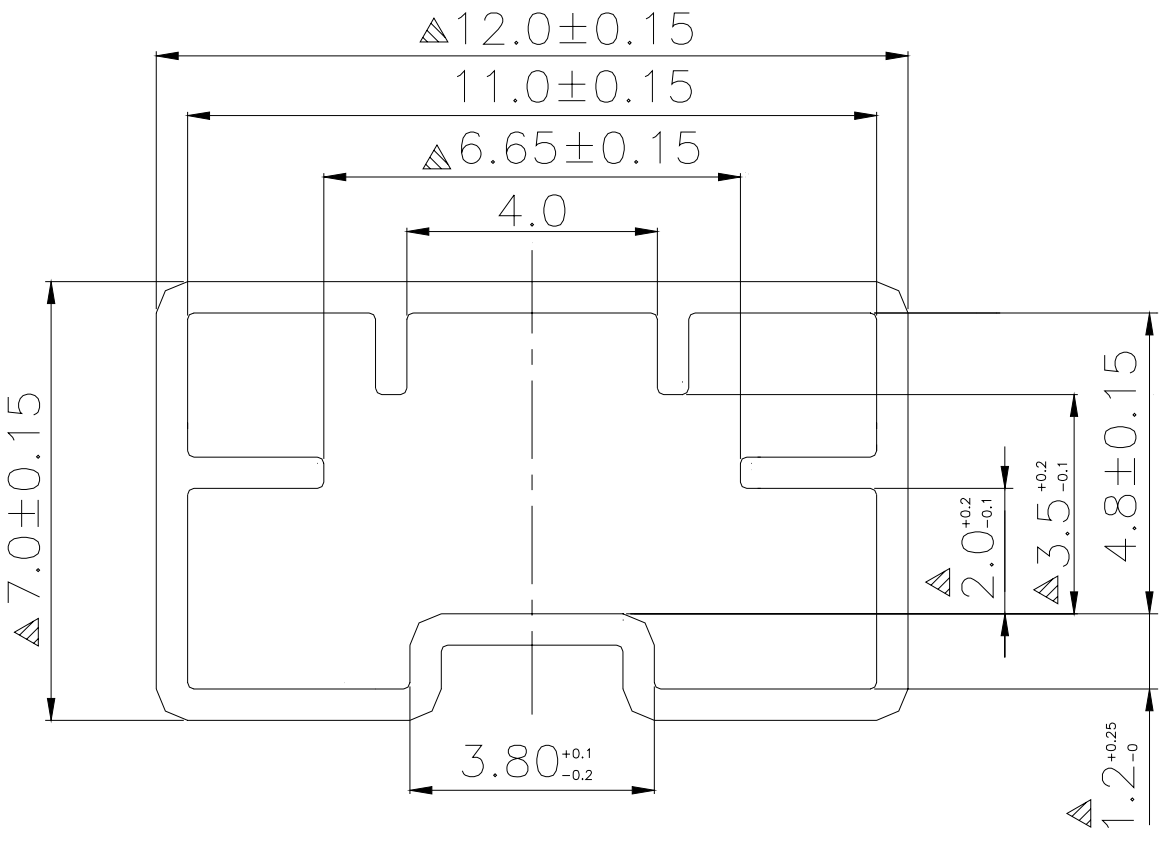
△Reflow Temperature Profile:



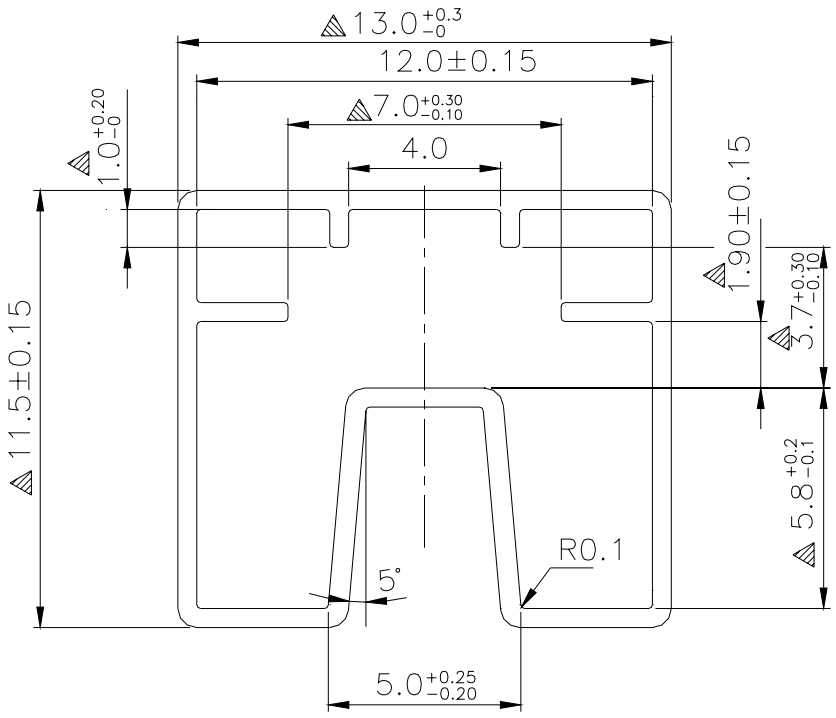
Part Number	Number Per Tube	Part Number	Number Per Reel	Part Number	Number Per Tube	Part Number	Number Per Reel
DM(R)-01	130	DMR-01-T/R	800	NDI-01(-T)	130	DM-01-T/R	800
DM(R)-02(-T)	76	DMR-02-T-T/R	900	NDI-02(-T)	76	DM-02-T/R	700
DM(R)-03(-T)	55	DMR-03-T-T/R	900	NDI-03(-T)	55	DM-03-T/R	700
DM(R)-04(-T)	42	DMR-04-T-T/R	900	NDI-04(-T)	42	DM-04-T/R	700
DM(R)-05(-T)	35	DMR-05-T-T/R	900	NDI-05(-T)	34	DM-05-T/R	800
DM(R)-06(-T)	28	DMR-06-T-T/R	900	NDI-06(-T)	29	DM-06-T/R	700
DM(R)-07(-T)	25	DMR-07-T-T/R	900	NDI-07(-T)	25	DM-07-T/R	800
DM(R)-08(-T)	22	DMR-08-T-T/R	900	NDI-08(-T)	22	DM-08-T/R	700
DM(R)-09(-T)	20	DMR-09-T-T/R	900	NDI-09(-T)	20	DM-10-T/R	800
DM(R)-10(-T)	18	DMR-10-T-T/R	900	NDI-10(-T)	18	DM-12-T/R	700
DM(R)-12(-T)	15	DMR-12-T-T/R	900	NDI-12(-T)	15		
						DJR-□□-T-T/R	1000

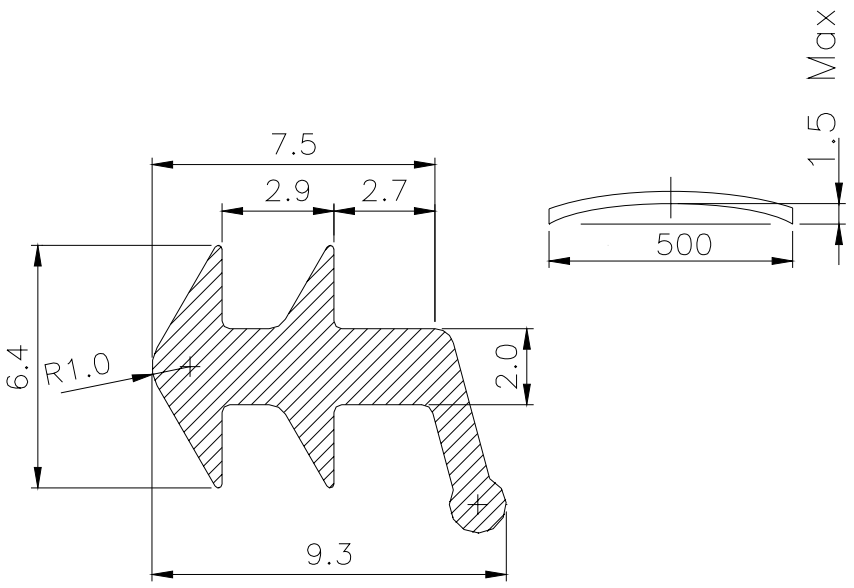
PACKING

DM(R)、DJ(R) Tube

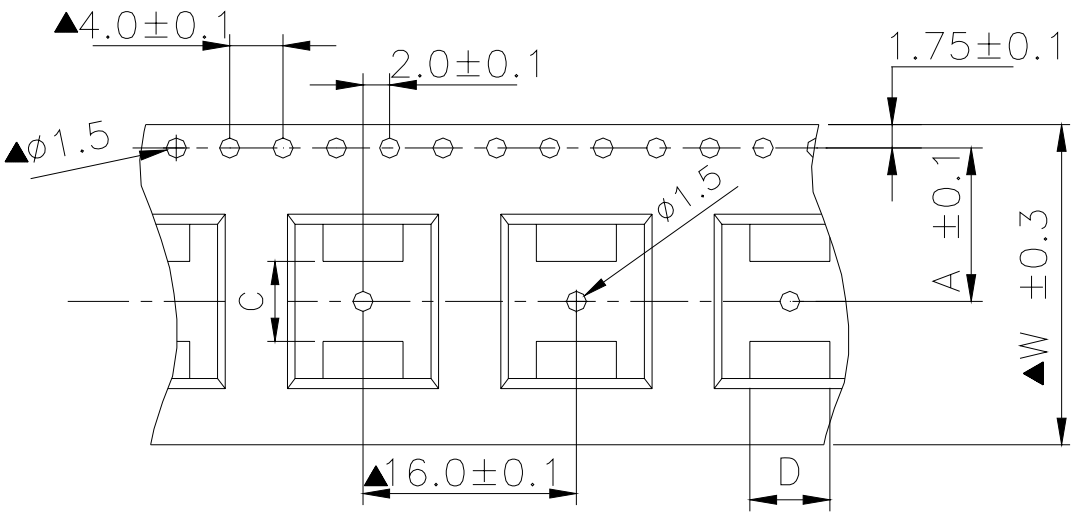


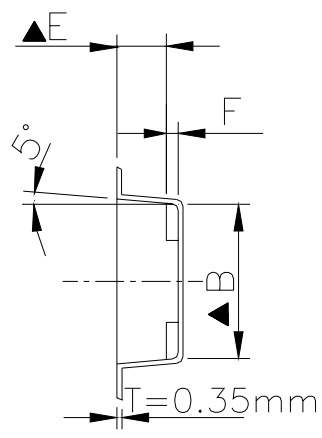
NDI(R) Tube

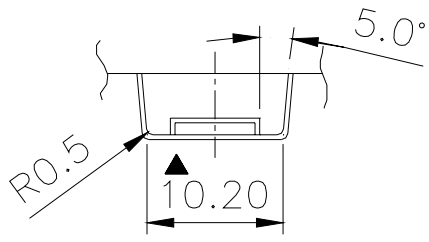




DMR-02~06 Reel

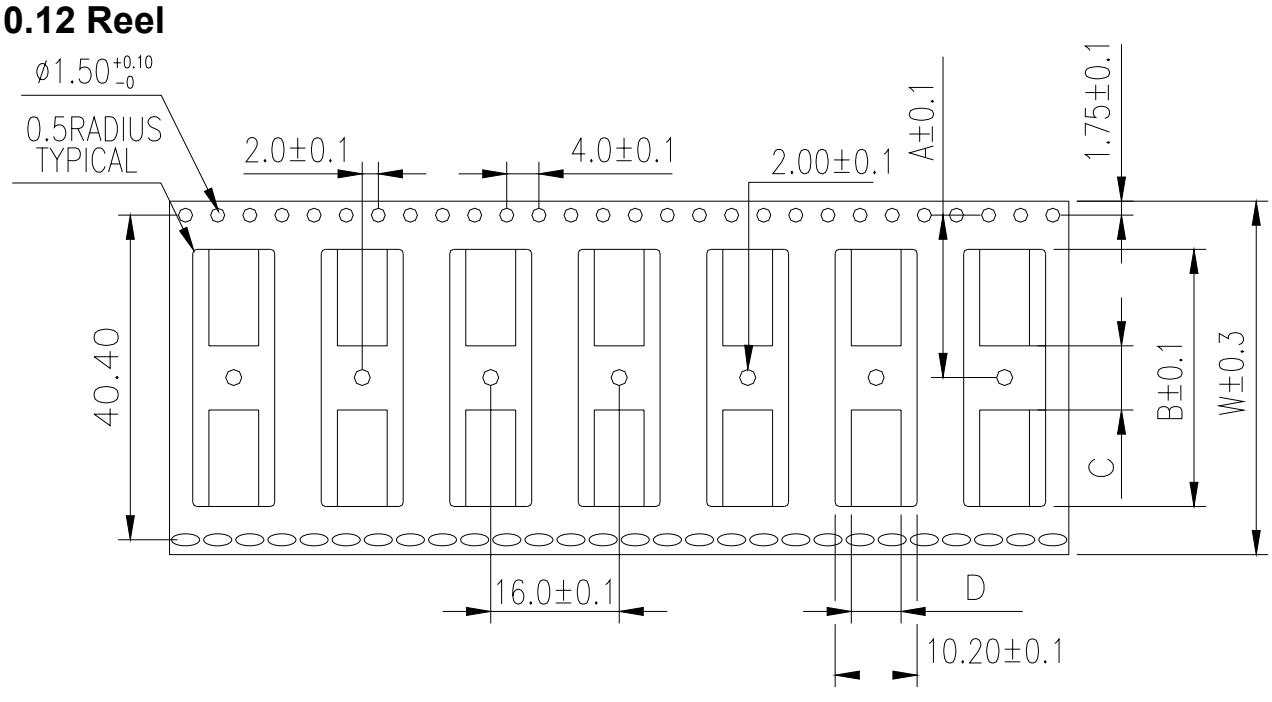


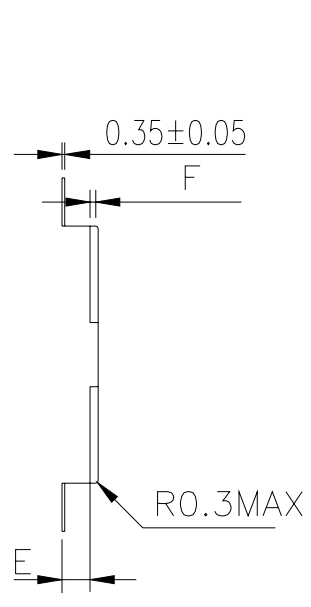




DMR-06	620160000	24±0.3	11.5±0.1	16.60±0.1	6±0.1	6±0.1	3.5	0.9
DMR-05	620150000	24±0.3	11.5±0.1	14.15±0.1	3±0.1	6±0.1	4.5	0.4
DMR-04	620140000	24±0.3	11.5±0.1	11.56±0.1	6±0.1	6±0.1	3.5	0.9
DMR-03	620130000	24±0.3	11.5±0.1	9.07±0.1	3±0.1	6±0.1	4.5	0.4
DMR-02	620120000	16±0.3	7.5±0.1	6.50±0.1	3±0.1	6±0.1	3.5	0.9
PART NAME	PART NO:	W±0.3	A	B	C	D	E	F

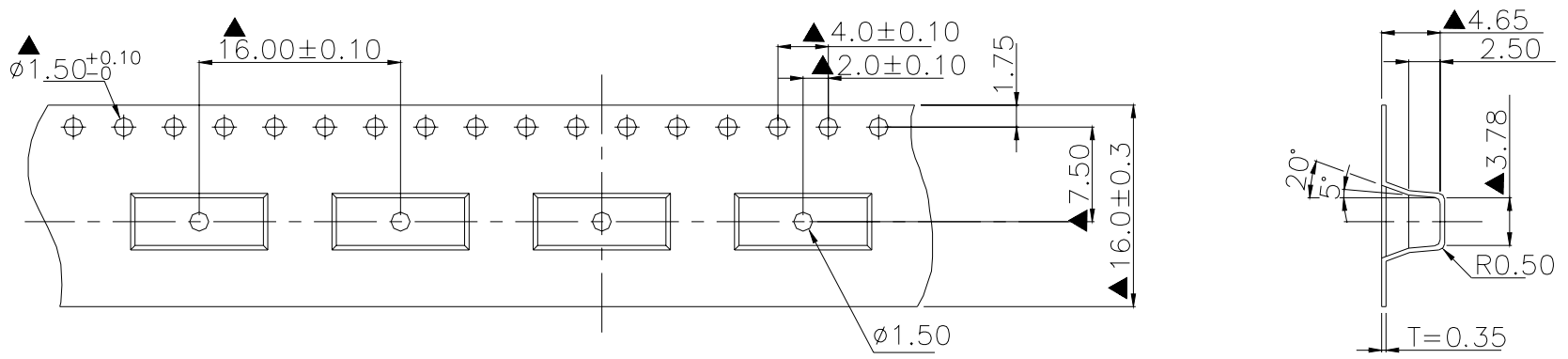
DMR-07.08.09.10.12 Reel



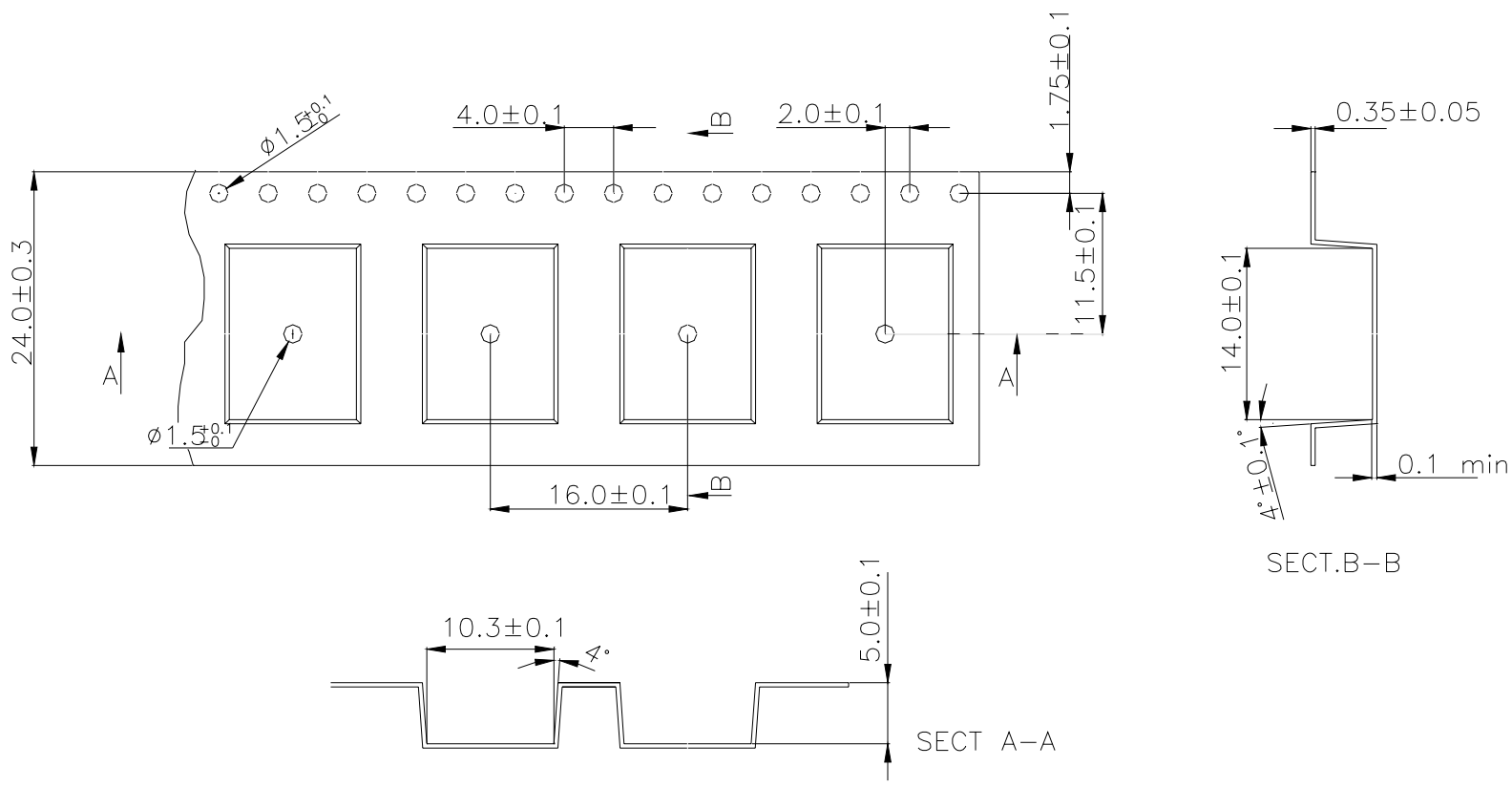


DMR-12	61120000	44.00	20.20	32.00	8.00	6.20	3.45	1.0
DMR-10	61026000	44.00	20.20	26.80	5.0	6.00	4.5	0.4
DMR-09	61025000	44.00	20.20	24.26	5.00	6.00	4.5	0.4
DMR-08	61034000	32.00	14.20	21.70	6.00	6.00	3.5	0.9
DMR-07	61024000	32.00	14.20	19.20	5.00	6.00	4.5	0.4
PART NAME	PART NO.	W±0.3	A	B	C	D	E	F

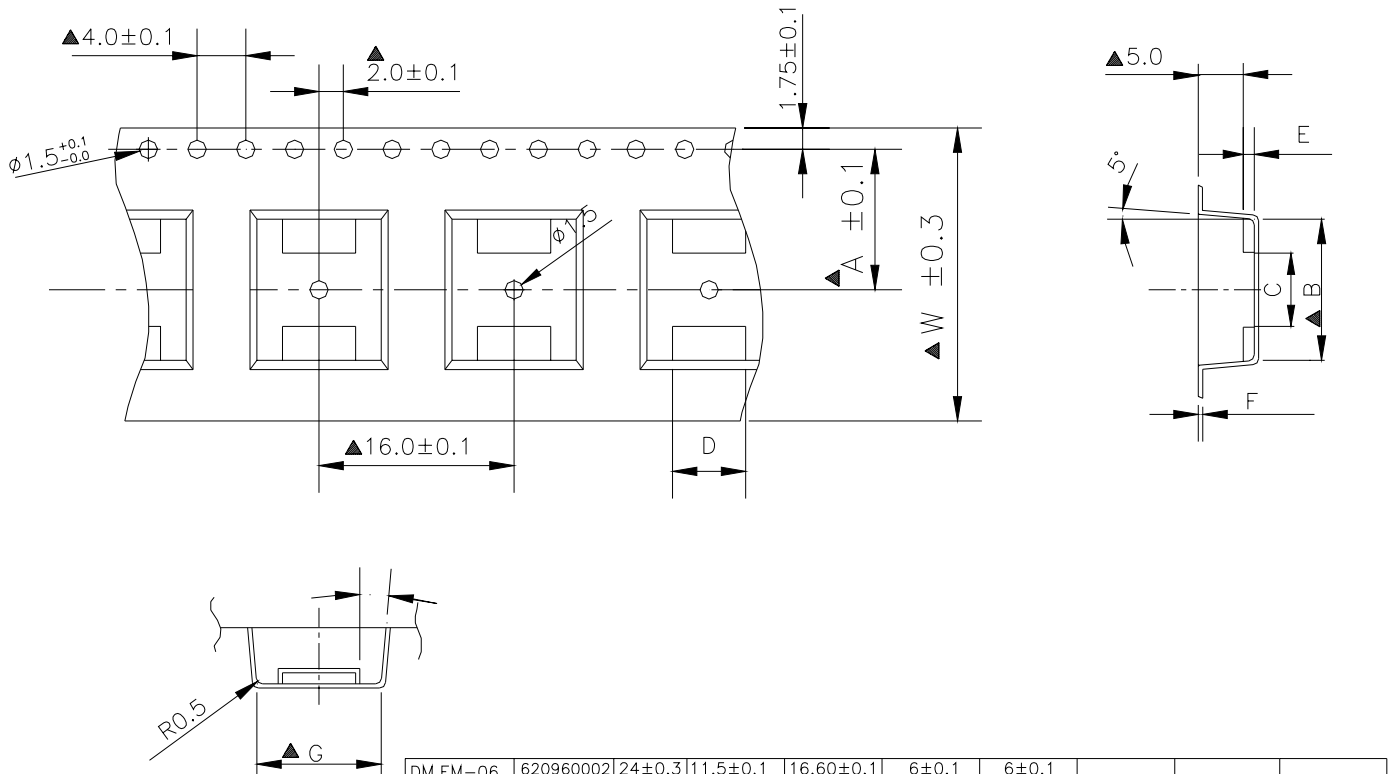
DM(R)-01



DM-05 Reel

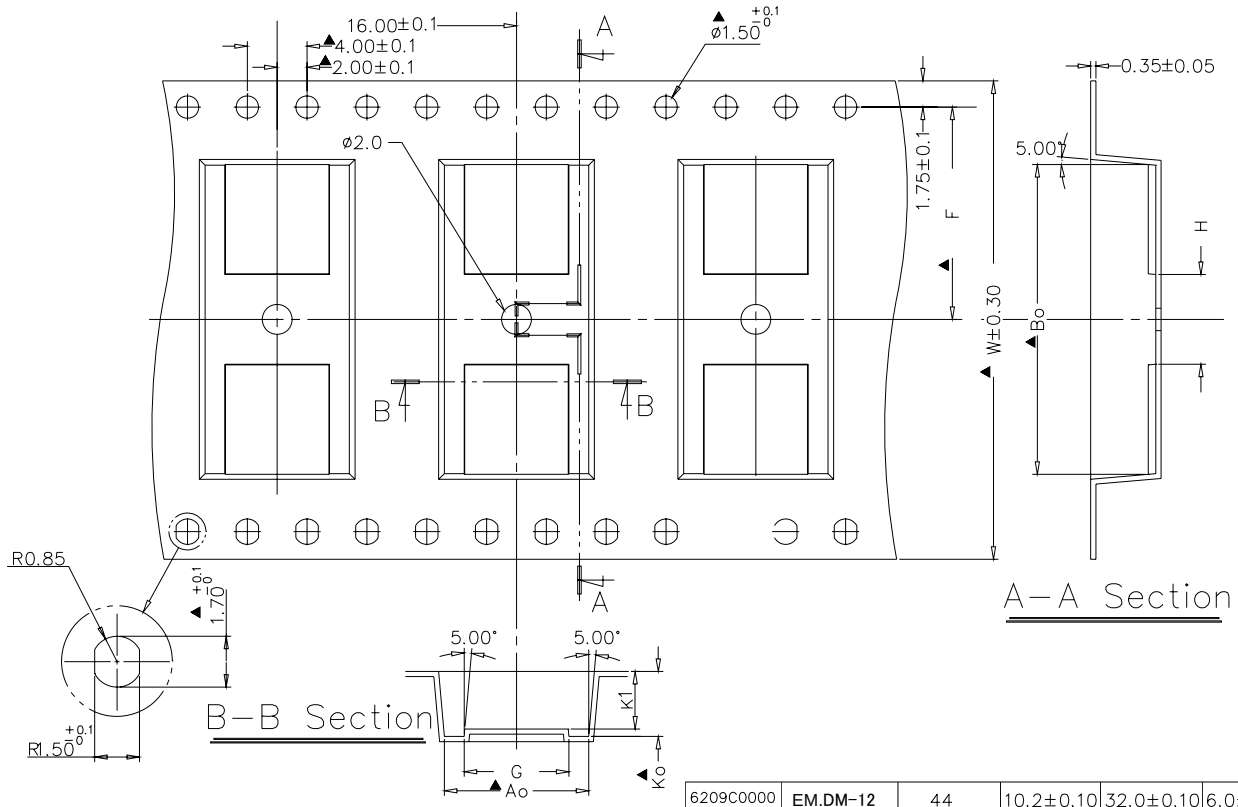


DM-02.03.04.06 Reel



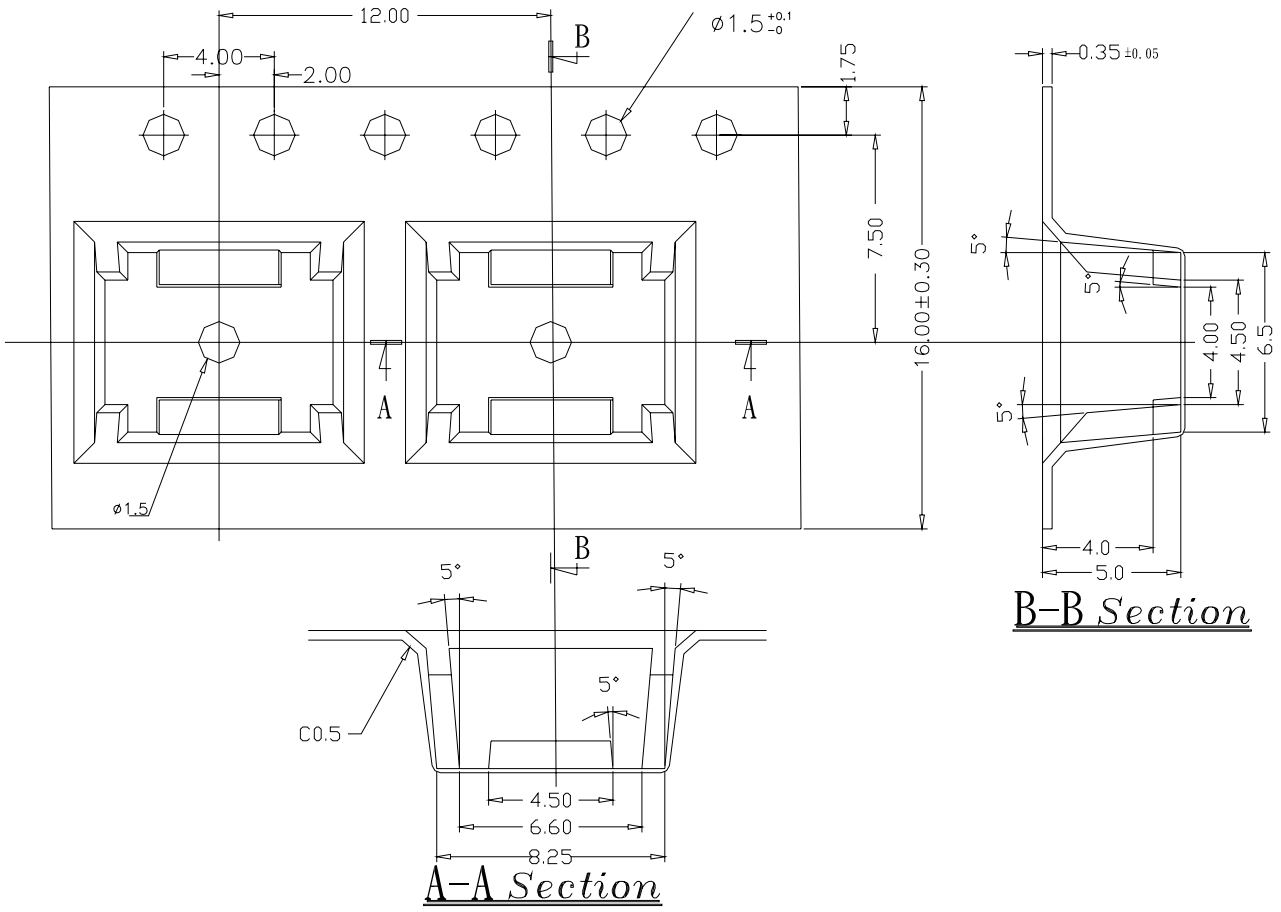
PART NAME	PART NO:	W±0.3	A	B	C	D	E	F	G
DM.EM−06	620960002	24±0.3	11.5±0.1	16.60±0.1	6±0.1	6±0.1	0.9	T=0.35mm	10.2±0.1
DM.EM−04	620940000	24±0.3	11.5±0.1	11.56±0.1	6±0.1	6±0.1			
DM.EM−03	620930000	16±0.3	7.5±0.1	8.9±0.1	2.5±0.1	6.5±0.1			
DM.EM−02	620920000	16±0.3	7.5±0.1	6.4±0.1	3±0.1	6±0.1		T=0.4mm	

DM-07.08.12 Reel

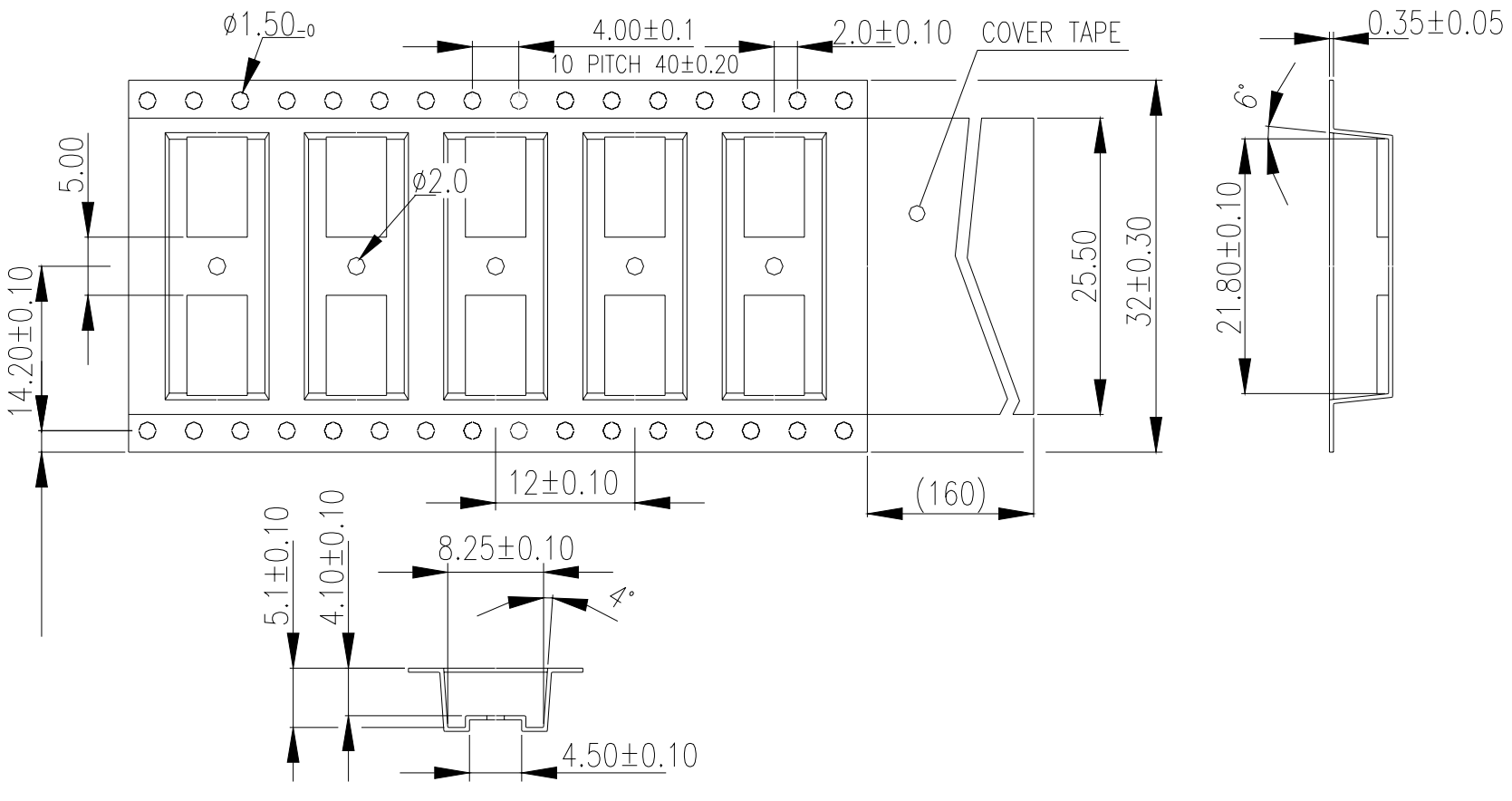


6209C0000	EM.DM-12	44	10.2±0.10	32.0±0.10	6.0±0.10	5.0±0.10	20.2±0.10	6.0	6.0
620980000	EM.DM-08	32	10.1±0.10	21.5±0.10	5.9±0.10		14.2±0.10		
620970000	EM.DM-07	32	10.1±0.10	19.17±0.10	5.0±0.10	4.0±0.10	14.2±0.10	6.5	5.0
PART NO	PART NAME	W± 0.3mm	A0	B0	K0	K1	F	G	H

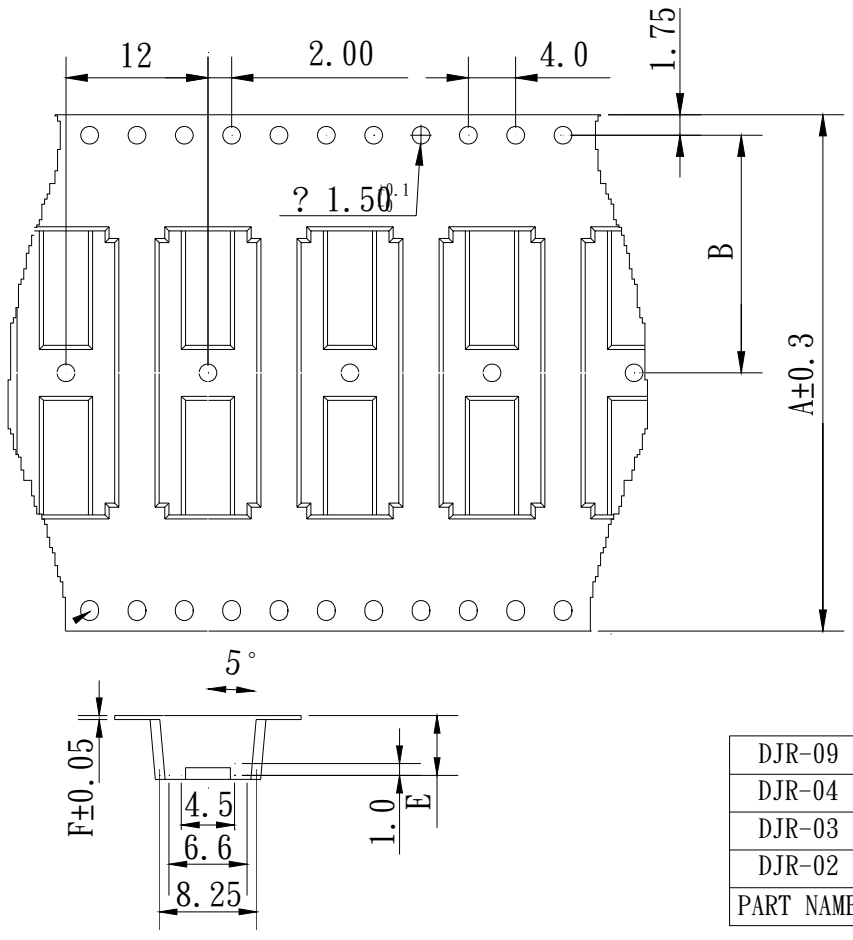
DJR-02

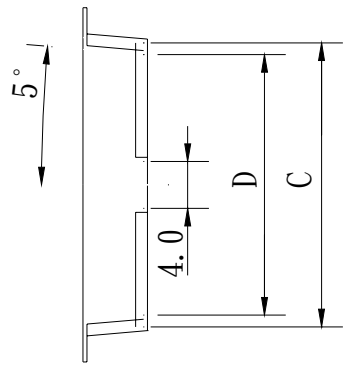


DJR-08 Reel



DJR-03,04,09





DJR-09	621290000	44.00	20.20	24.20	22.20	5.0	0.35	37.5mm
DJR-04	621240000	24.00	11.50	11.40	9.40	5.0	0.35	21mm
DJR-03	621230000	16.00	7.50	9.00	7.00	4.5	0.35	13.3mm
DJR-02	621220000	16.00	7.50			5.0	0.35	13.3mm
PART NAME	PART NO	DIM A	DIM B	DIM C	DIM D	DIM E	DIM F	膠帶寬