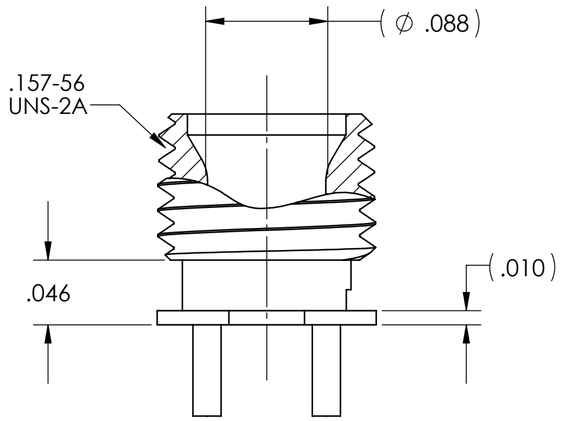
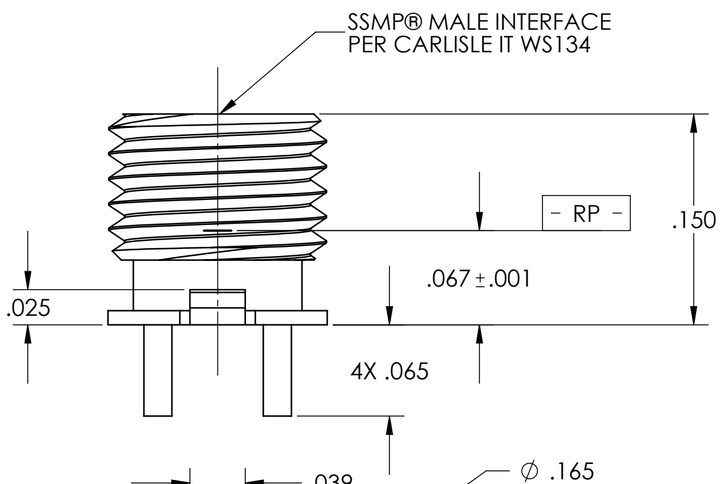
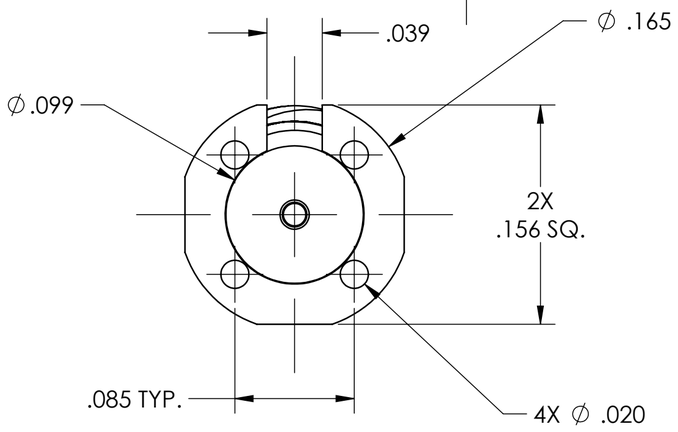
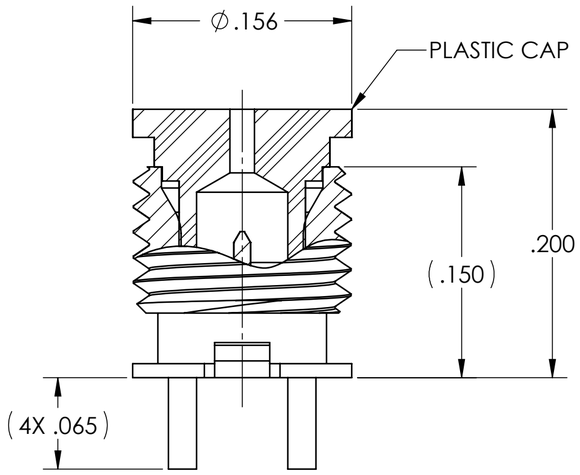
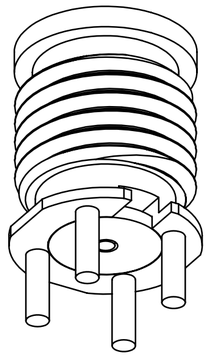
REVISIONS			
REV.	DESCRIPTION	DATE	BY
P2	ADD TAPE & REEL	03/31/2016	YP
P3	UPDATE VIEW & ADD FOOTPRINT	08/02/2016	YP
P4	UPDATE FOOTPRINT	08/12/2016	HT











PRELIMINARY

SSMP® is a registered trademark of Carlisle IT.

MATERIAL(S):

Body, Center Conductor::
BeCu Alloy per ASTM B-196
Insulator:
Peek

ELECTRICAL(S):

Impedance: 50 Ohms Nominal
Frequency Range: DC to 65.0 GHz
VSWR: TBD
Insertion Loss: TBD
Working Voltage: 325 Vrms max @ Sea Level
Dielectric Withstand Voltage: 500 Vrms min.
RF HiPot Voltage: 325 Vrms min. @ 5MHz
Corona Level: 190 Vrms @ 70,000 ft
Insulation Resistance: 5000 MegOhms min.
RF Leakage: -80 dB max to 3 GHz
-65 dB max to 18 GHz
Contact Resistance:
Center Contact: 6.0 Milliohms max

MECHANICAL(S):

Interface Dimensions:
Interface per Carlisle IT WS134.
Connector Durability:
1,000 Cycles
Force to Engage:
Non-Detent: 2.5 lbs max
Force to Disengage:
Non-Detent: 1.5 lbs min

ENVIRONMENTAL(S):

Temperature Range: -55°C to +165°C
Thermal Shock:
MIL-STD-202, Method 107, Test Condition B
Moisture Resistance:
MIL-STD-202, Method 106, Insulation resistance at least 200 MegaOhms within 5 minutes after removal from humidity.
Corrosion:
MIL-STD-202, Method 101, Test Condition B
Vibration:
MIL-STD-202, Method 204, Test Condition D
Shock:
MIL-STD-202, Method 213, Test Condition I

FINISH(ES):

Body & Center Conductor:
Gold plate per ASTM B-488 over Nickel plate per SAE AMS-QQ-N-290

APPLICABLE CARLISLE IT DOCUMENTS

WORK STANDARD	PROD INSTRUC	ASSY INSTRUC
NA	NA	NA
-		

TOLERANCES AND NOTES
EXCEPT AS NOTED
DIMENSIONS ARE IN INCHES.
LINEAR .XX ±.015 .XXX ±.005 ANGULAR ± 1/2°
FRACTION ± 1/32
1. MACHINE FINISH: 63 RMS
2. BREAK ALL SHARP EDGES .003 MAX.
3. MACHINED FILLETS .005 MAX.
4. MACHINED SURFACES SQUARE TO RESPECTIVE AXIS WITHIN .005 INCHES PER INCH.
5. MACHINED DIAMETERS CONCENTRIC WITHIN .002 T.I.R.
6. DIMENSIONS TO BE MET BEFORE PLATING.
7. CHAMFER ALL THREADS 45°.
8. THREADS PER H-28
9. REMOVE FRAYED EDGES ON TEFLON.
10. REMOVE ALL BURRS.

MATERIAL		
APPROVAL	INITIALS	DATE
DRAWN BY	YPHAN	03.08.16
CHECKED BY	-	-
TEST ENGR	-	-
QUALITY	-	-
DESIGN ENG	H.T.	04.05.16
MFG. ENGR	K.M.	08.03.16
ECO APPRV	H.T.	08.03.16

-	-	-
MATERIAL	SPECIFICATION	PROCUREMENT

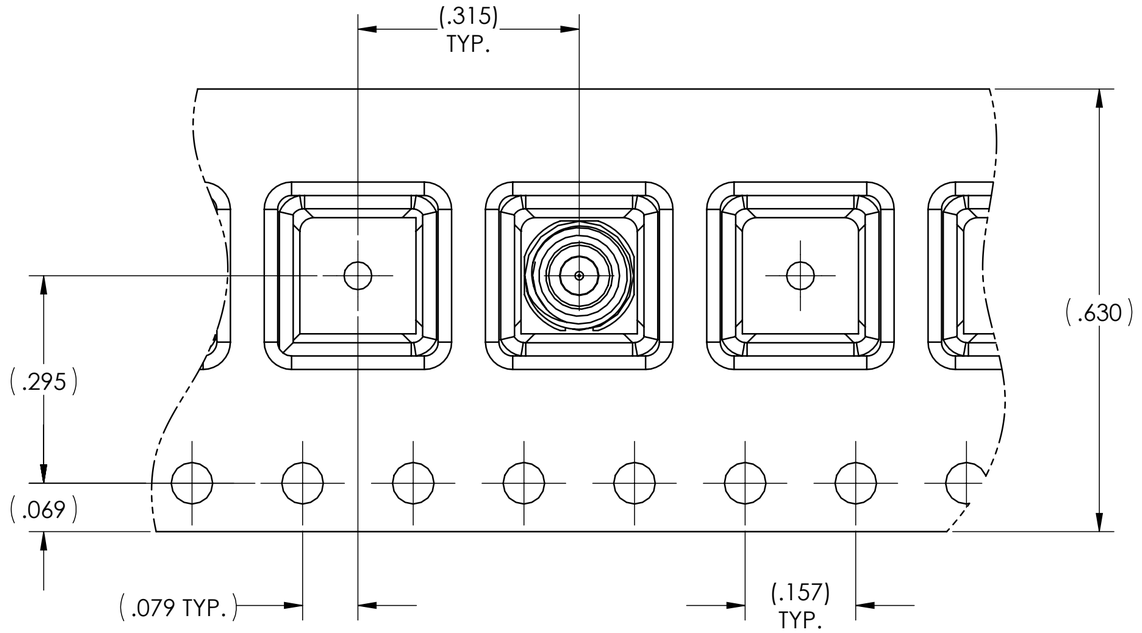
CARLISLE Interconnect Technologies
Cerritos, CA 90703

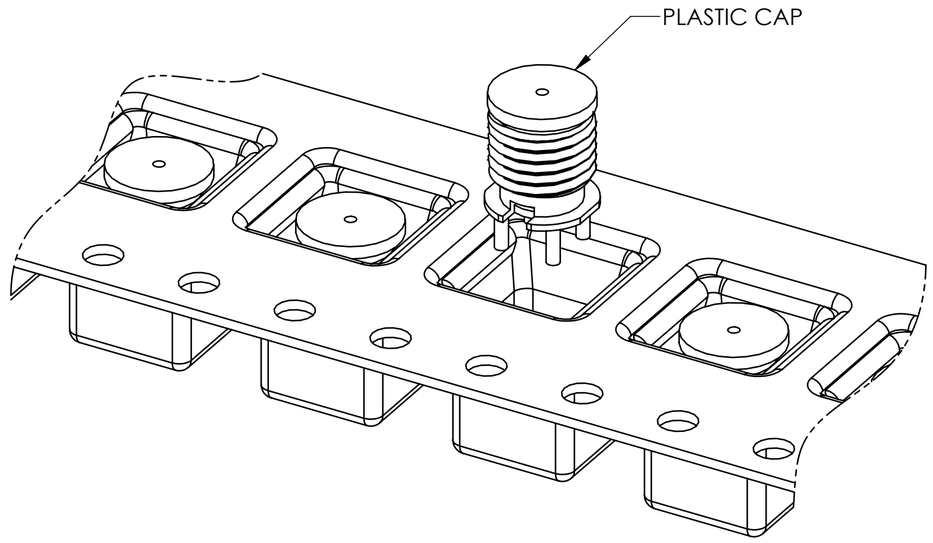
TITLE: SSMP® MALE STRAIGHT SURFACE MNT, TAPED & REELED

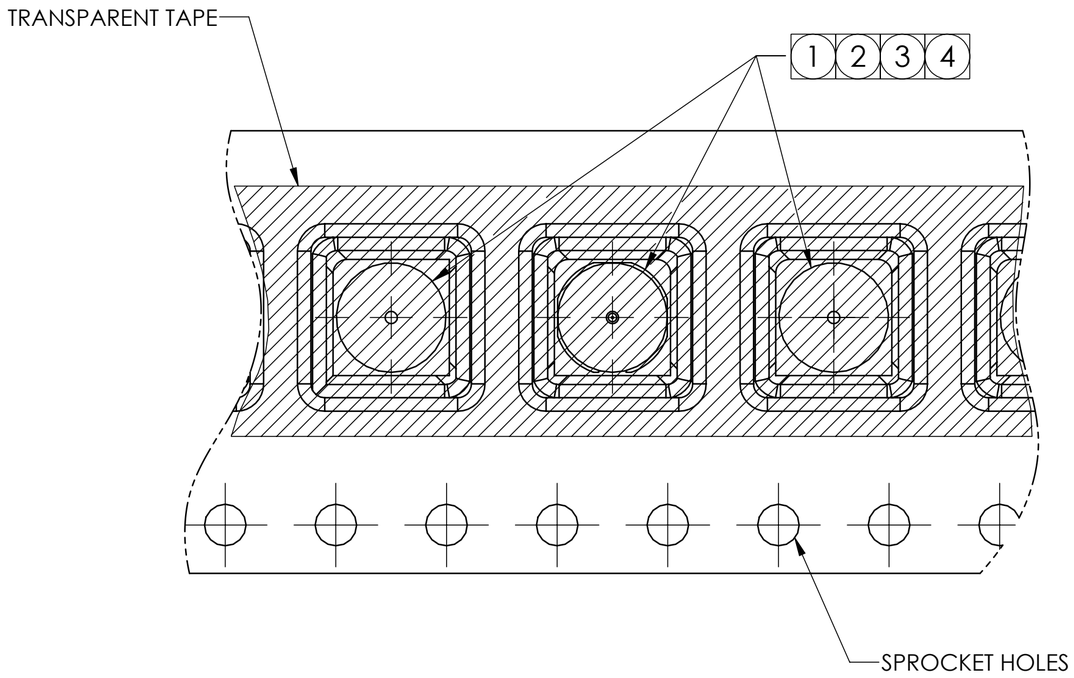
SCALE	SUB-DIRECTORY/	SHEET
12:1	_OUTLINE/	1 OF 3

SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	P317TL-1CCTR	P4

ENG–SW REV. E





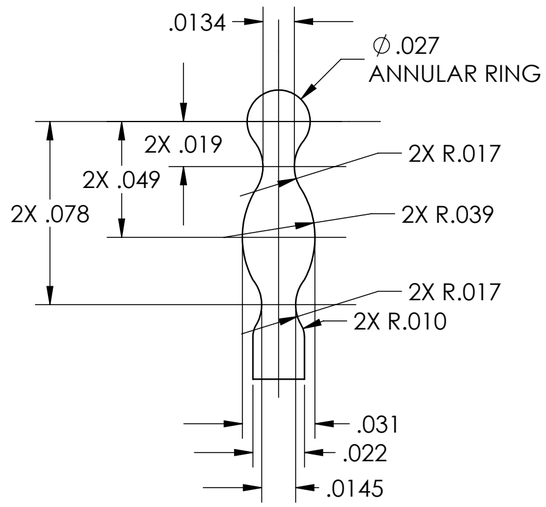


PACKAGING NOTE(S) :

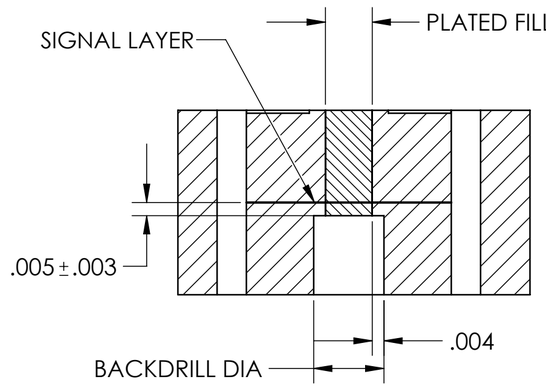
1. CONNECTOR ASSEMBLY SHALL BE PLACED INSIDE CARRIER TAPE; MOUSE BITE (CUTOUT) ON THE THE BODY POINTING TOWARD SPROCKET HOLES.
2. SSMP® CONNECTORS IS HELD ON CARRIER TAPE USING A TRANSPARENT TAPE.
3. A MAXIMUM OF 500 PIECES OF CONNECTORS CAN BE FITTED INTO CARRIER TAPE & Ø 13.0 INCHES REEL CONFIGURATIONS.
4. SUB-ASSEMBLY PER NOTES 1 & 2 TO BE INSTALLED ONTO INNER HUB & FLANGE, FIGURES NOT SHOWN, PRIOR TO SHIPPING.

   NOTE: FOR EVERY 500 PCS OF CONNECTOR ASSEMBLY, REQUIRED 2 PCS OF FLANGES AND 1 PC OF INNER HUB.

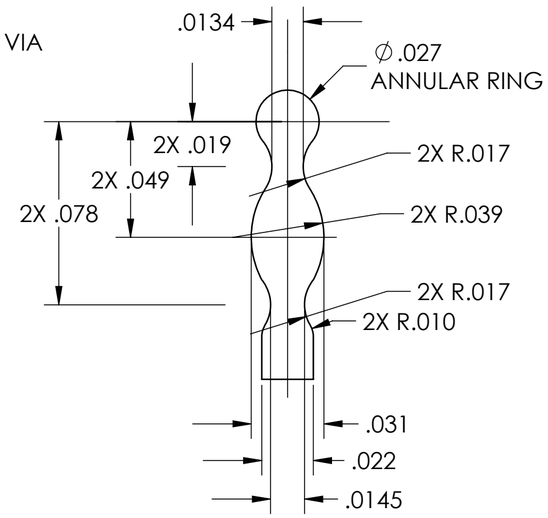
SCALE	SUB-DIRECTORY/	SHEET 2 OF 3	
12:1	_OUTLINE/		
SIZE	CAGE CODE	DRAWING NO.	REV.
C	30990	**P317TL-1CCTR**	P4



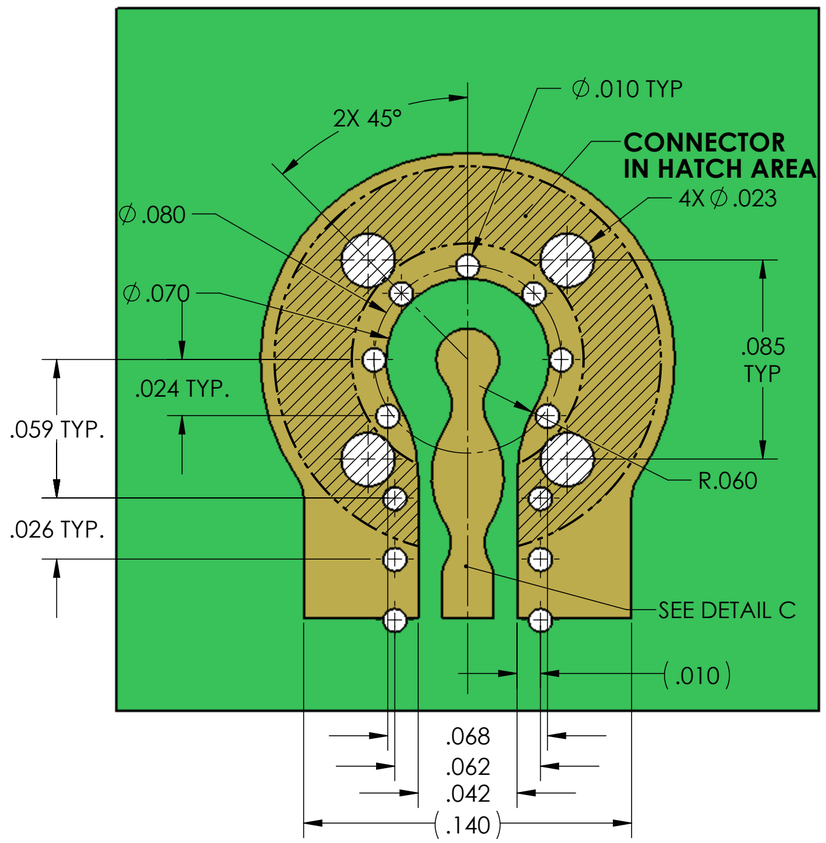
DETAIL C
SIGNAL TRACE



SECTION D-D
SCALE 25 : 1

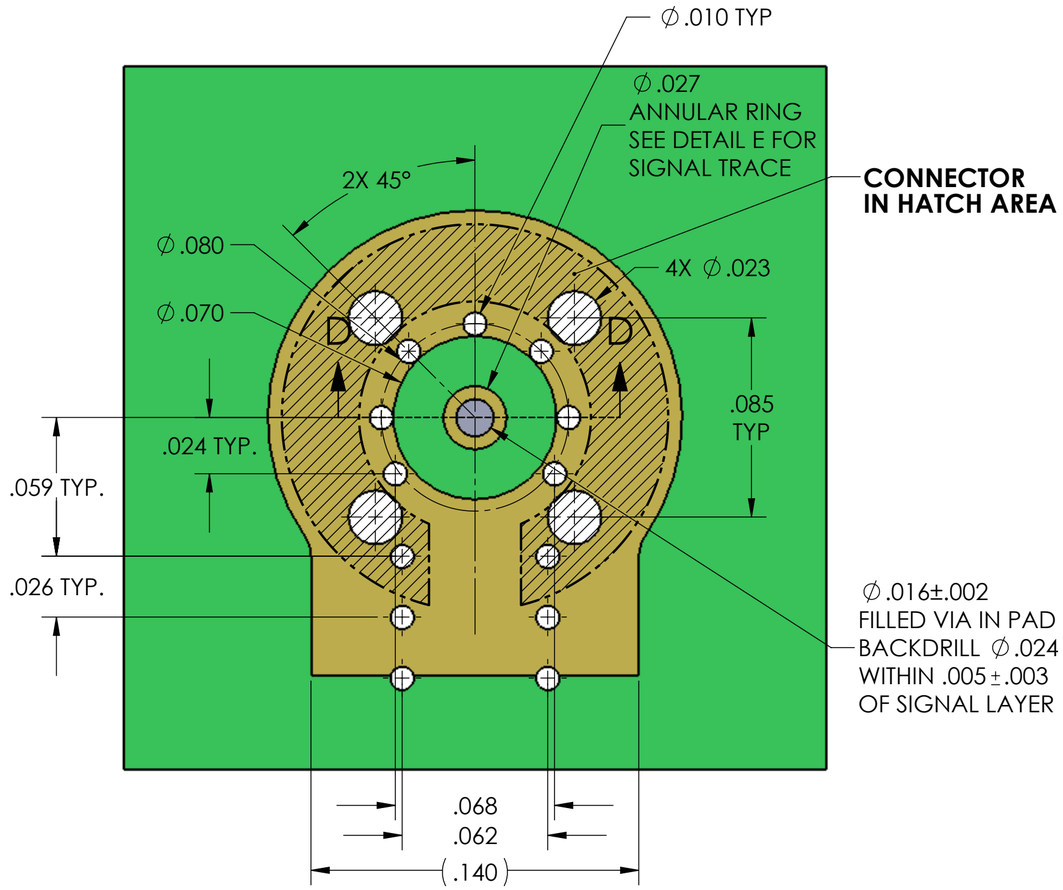


DETAIL E
TRACE ON
SIGNAL LAYER



SCALE 20:1

RECOMMENDED CPW PCB PIN LAYOUT



SCALE 20:1

RECOMMENDED STRIPLINE PCB PIN LAYOUT

SCALE 12:1	SUB-DIRECTORY/ _OUTLINE/		SHEET 3 OF 3
SIZE C	CAGE CODE 30990	DRAWING NO. P317TL-1CCTR	REV. P4

ENG–SW REV. E