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P/N	A	B	FIGURE(S)
P617-1CC	.768/.770	NR	1
P617-2CC	.850/.852	NR	1
P617-3CC	1.365/1.367	NR	1
P617-4CC	.439/.441	NR	2
P617-5CC	.768/.770	NR	2
P617-6CC	.414/.416	NR	1
P617-7CC	.427/.429	NR	1
P617-8CC	.538/.540	NR	3
P617-9CC	.528/.530	NR	3
P617-10CC	.636±.001	(.272)	4
P617-11CC	1.898±.002	(.358)	4
P617-12CC	2.769±.002	(.358)	4

NOTE(S):

1. OUTLINE DRAWING REVISION IS INDEPENDENT OF PRODUCTION REVISION.

MATERIAL(S):

BODY & CENTER CONDUCTOR:
BeCu ALLOY PER ASTM B-196.
INSULATOR:
TEFLON PER ASTM D-1710.
O-RING:
SILICONE CARBON FILLED ELASTOMER,
CONDUCTIVE, COLOR BLACK.
O-RING: (-10CC THRU -12CC)
SILICONE PER AA-59588, CLASS 2,
GRADE 70
SOLDER (CENTER CONDUCTOR):
(-10CC THRU -12CC) Sn63

ELECTRICAL(S):

IMPEDANCE: 50 OHMS NOMINAL.
FREQUENCY RANGE: DC TO 40 GHz.
VSWR: 1.05 + .008 f(GHz).
INSERTION LOSS: .04 X √f(GHz).
WORKING VOLTAGE: 335 Vrms MAX @SEA LEVEL
INSULATION RESISTANCE: 5,000 MEGOHMS.
DIELECTRIC WITHSTANDING VOLTAGE:
500 Vrms.
R.F. HiPOT VOLTAGE: 325 Vrms MIN @ 5 MHZ.
CORONA LEVEL: 190 Vrms @ 70,000 ft.
R.F. LEAKAGE: -80 dB MAX TO 3.0 GHz.
-65 dB MAX TO 18.0 GHz.
CONTACT RESISTANCE:
CENTER CONTACT: 8.0 mOHMS.
OUTER CONTACT: 2.0 mOHMS.

MECHANICAL(S):

MATING CHARACTERISTICS:
INTERFACE PER MIL-STD-348.
FORCE TO ENGAGE:
FULL DETENT: 15 lbs MAX.
LIMITED DETENT: 10 lbs MAX.
SMOOTH BORE: 2 lbs MAX.
FORCE TO DISENGAGE:
FULL DETENT: 5 lbs MAX.
LIMITED DETENT: 2 lbs MAX.
SMOOTH BORE: .5 lbs MAX.
CENTER CONTACT RETENTION:
AXIAL FORCE: 2.0 POUNDS MIN.
RADIAL TORQUE: NA.
CONNECTOR DURABILITY:
FULL DETENT: 100 CYCLES MIN.
LIMITED DETENT: 500 CYCLES MIN.
SMOOTH BORE: 1,000 CYCLES MIN.
AXIAL MISALIGNMENT: .000/.010 INCH.

ENVIROMENTAL(S):

TEMPERATURE RANGE: -65 °C TO +165 °C.
THERMAL SHOCK:
MIL-STD-202, METHOD 107, TEST COND. B.
MOISTURE RESISTANCE:
MIL-STD-202, METHOD 106, EXCEPT STEP
7B SHALL BE OMITTED. INSULATION
RESISTANCE SHALL BE 200 MEGOHMS
WITHIN 5 MINUTES AFTER REMOVAL FROM
HUMIDITY.
CORROSION:
MIL-STD-202, METHOD 101, TEST COND. B.
VIBRATION:
MIL-STD-202, METHOD 204, TEST COND. D.
SHOCK:
MIL-STD-202, METHOD 213, TEST COND. I.

FINISH(ES):

BODY & CENTER CONDUCTOR:
GOLD PLATE PER ASTM B-488, TYPE II, CODE C or D, CLASS 1.25,
OVER NICKEL UNDER PLATE PER SAE-AMS-QQ-N-290, CLASS 1,
.000050 MIN THICK, OVER COPPER STRIKE.

APPLICABLE Amphenol CDI DOCUMENTS

WORK STANDARD	PROD INSTRUC	ASSY INSTRUC
NA	NA	NA

THE INFORMATION CONTAINED HEREIN IS PROPRIETARY TO AMPHENOL
AND SHALL IN NO WAY BE REPRODUCED OR DISCLOSED IN WHOLE OR IN
PART OR USED FOR ANY DESIGN OR MANUFACTURE EXCEPT WHEN SUCH
USER POSSESSES DIRECT, WRITTEN AUTHORIZATION FROM AMPHENOL.

TOLERANCES AND NOTES

EXCEPT AS NOTED
DIMENSIONS ARE IN INCHES.
LINEAR .XX ±.015 / .XXX ±.005
FRACTION ± 1/32 ANGULAR ± 1/2°
1. INTERPRET DRAWING PER ASME Y14.5 - 2018
MACHINE FINISH: 63 RMS
2. BREAK ALL SHARP EDGES .003 MAX.
3. MACHINED FILLETS .005 MAX.
4. MACHINED SURFACES SQUARE TO RESPECT-
IVE AXIS WITHIN .005 INCHES PER INCH.
5. MACHINED DIAMETERS CONCENTRIC
WITHIN .002 T.I.R.
6. DIMENSIONS TO BE MET AFTER PLATING.
7. CHAMFER ALL THREADS 45°.
8. THREADS PER H-28
9. REMOVE FRAYED EDGES ON TEFLON.
10.REMOVE ALL BURRS.

SEE ECO FOR
APPROVAL
SIGNATURES

SPECIFICATION		PROCUREMENT	
TITLE SMP FEMALE TO SMP FEMALE STRAIGHT ADAPTER		12900 Alondra Blvd. Cerritos, CA 90703	
SCALE 10:1	SHEET 1 OF 2		REV. H
SIZE C	CAGE CODE 30990	DRAWING NO. P617	

ECO

REV.

DESCRIPTION

DRAWN BY

DATE

35219	E	ADD -10CC THRU -12CC	DKN	10.14.19
201966	F	-	P. MAO	10.01.24
202352	G	ADD NEW NAME	DKN	11.26.24
205816	H	REDRAWN IN SW	PAW	07.23.26

FIGURE 1

REVISION HISTORY

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RoHS 3
Compliant
EU 2015/863

ENG-SW REV. L

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