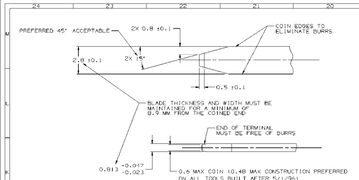
SYMBOL DEFINITION			MISSING SYMBOLS
A DIMENSION WITHOUT AN INSPECTION REPORT SYMBOL ( ) DOES NOT REQUIRE INSPECTION. IT MAY BE CONTROLLED ON THE INDIVIDUAL COMPONENT DRAWING.	TOTAL NO OF INSPECTIONS REQUIRED	5	NO MISSING SYMBOL NUMBER
	LAST NO. USED	5	

DWG STATUS DATE	STG	REV	N/P	CHG	ZONE	REVISION HISTORY	AUTH	DR	APVD 1	APVD 2
24JA05	R	06	-	-		CLEARED REVISION COLUMN; CONNECTOR SEAL WAS 12065663; REMOVED SECTION D-D; REVISED DIMENSION TO LATEST DRAWING STANDARDS; ADDED NOTE 10	263412	RH	RH	WR



MATERIAL SPECIFICATION

RECOMMENDED -
BASE METAL - CDA-210, GILDING, EXTRA SPRING TEMPER
PLATING - 0.0050 ± 0.0025 MM THK TIN

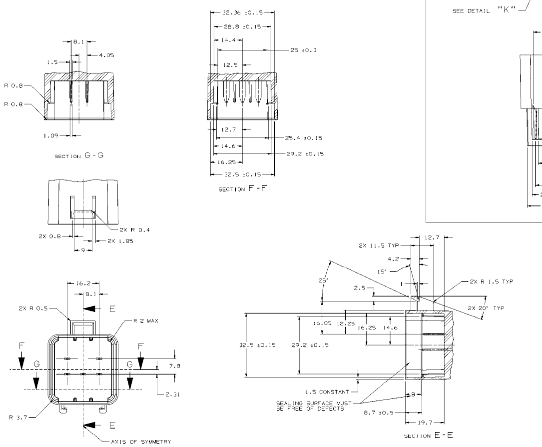
MINIMUMS -
ELECTRICAL CONDUCTIVITY - ≥ 20% IACS AT 20°C. USE OF A MATERIAL WITH CONDUCTIVITY < 20% IACS MUST BE APPROVED BY DELPHI PACKARD ELECTRIC MATERIALS ENGINEERING.

TENSILE STRENGTH - 407 MPa
PLATING - FOR LOW ENERGY (≤ 5V) AND NON-PASSENGER COMPARTMENT POWER CIRCUITS, 0.0050 ±0.0025 MM THICK TIN. FOR MATERIALS CONTAINING 10% OR MORE ZINC, AN UNDERPLATE OF COPPER 0.0050 ±0.0025 MM THICK IS REQUIRED.

BLADE THICKNESS -
UNPLATED = 0.813 ± 0.025
TIN PLATED = 0.823 ± 0.030

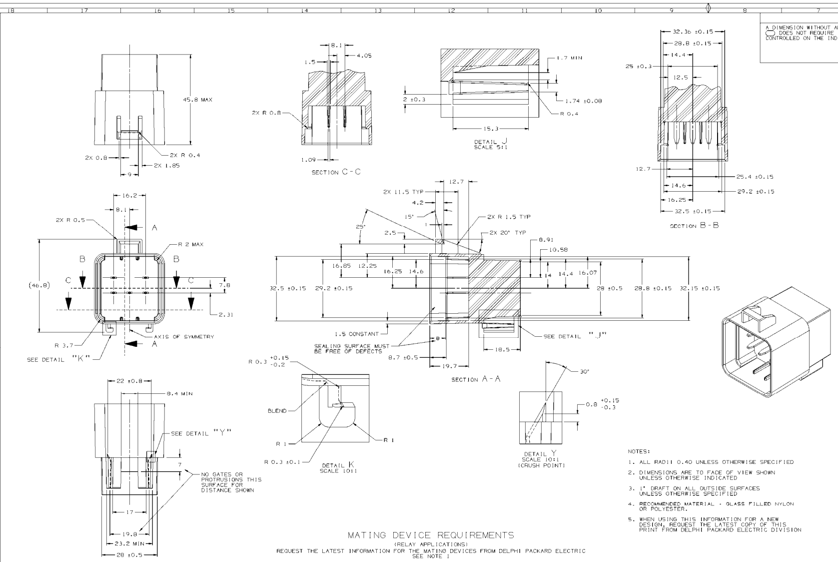
MATING BLADE INFORMATION

SCALE 10:1



MATING SHROUD REQUIREMENTS

REQUEST THE LATEST INFORMATION FOR THE MATING SHROUD FROM DELPHI PACKARD ELECTRIC
SEE NOTE 1

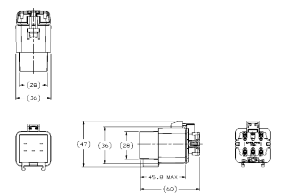


NOTES:

1. ALL RADII 0.40 UNLESS OTHERWISE SPECIFIED
2. DIMENSIONS ARE TO FACE OF VIEW SHOWN UNLESS OTHERWISE INDICATED
3. 1° DRAFT ON ALL OUTSIDE SURFACES UNLESS OTHERWISE SPECIFIED
4. RECOMMENDED MATERIAL - GLASS FILLED NYLON OR POLYESTER.
5. WHEN USING THIS INFORMATION FOR A NEW DESIGN, REQUEST THE LATEST COPY OF THIS PRINT FROM DELPHI PACKARD ELECTRIC DIVISION

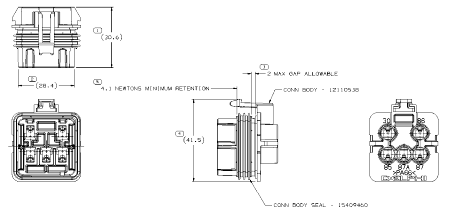
MATING DEVICE REQUIREMENTS

(RELAY APPLICATIONS)
REQUEST THE LATEST INFORMATION FOR THE MATING DEVICES FROM DELPHI PACKARD ELECTRIC
SEE NOTE 1



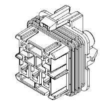
280 SEALED RELAY ASSEMBLED DIMENSIONS

SCALE 1:1



NOTES:

1. MATING COMPONENT DIMENSIONS SHOWN ARE REFERENCE ONLY. WHEN USING THIS INFORMATION FOR NEW DESIGN, REQUEST THE LATEST MATING INFORMATION FROM DELPHI PACKARD ELECTRIC. REVIEW LATEST MATING SHROUD & DEVICE COMPONENT PRINTS FOR ACTUAL DIMENSIONS.
2. CAVITIES TO ACCEPT 12129409 TERMINAL OR EQUIVALENT, MAXIMUM CABLE DIAMETER 3.65 MM
3. WHEN PARTS ARE SHIPPED, THEY MUST BE PACKED IN EITHER PLASTIC BAGS OR SHIPPING CONTAINERS LINED WITH PLASTIC LINERS. BAGS OR LINERS MUST BE SEALED TO AVOID ENTRY OF FOREIGN MATTER
4. CONNECTOR ACCEPTS CPA 12052834 OR EQUIVALENT
5. FOR LEAD LENGTH CALCULATIONS, DISTANCE FROM MATING END OF CONNECTOR TO FRONT OF CABLE CORE IS 15.05/11.65
6. SEALING CODE 3 - DESIGN WILL PASS SALT FOG AND IMMERSION TEST AFTER CONDITIONING AS SPECIFIED IN ESA-644 (WEATHER-PACK), ESA-710 (METRI-PACK), ESA-650 (UNDERHOOD MICRO-PACK), C-4006 (WORLD CONNECTOR), ETC WHEN MATED TO MATING PART OR EQUIVALENT
7. CONNECTOR TO ACCEPT 12110540 TPA OR EQUIVALENT
8. CAVITIES TO ACCEPT CABLE SEAL 12015323 OR EQUIVALENT
9. UNLESS OTHERWISE SPECIFIED AND/OR INDICATED: DIMENSIONS ARE TO FACE OF VIEW SHOWN AND AUTOMATICALLY ROUNDED BY COMPUTER FOR INSPECTION (SEE MATH MODEL FOR PRECISE DIMENSIONS)
10. NO PROCESSING OIL ALLOWED TO BE ADDED TO AID IN THE APPLICATION OF THE SEAL TO THE CONNECTOR



(3) PROCESS SENSITIVE DIMENSION

DIMENSIONS ENCLOSED IN [ ] INDICATE REFERENCE DIMENSIONS AND NO TOLERANCE LIMITS ARE ESTABLISHED

DIMENSIONAL RANGE (MM) FROM / TO	>0 / 20	>20 / 30	>30 / 70	>70 / 100	>100 / 150	>150 / 200	>200 / 250	>250 / 300	>300 / 400
TOLERANCE UNLESS OTHERWISE SPECIFIED	±0.15	±0.2	±0.3	±0.4	±0.5	±0.6	±0.8	±1	±1.2

ANGULAR TOLERANCE ±2°

DWG TYPE: PART DRAWING
STYLE:
VOLUME (CM³):
DISTR CODE: D

UNLESS OTHERWISE SPECIFIED
THIS DOCUMENT IS IN ACCORDANCE WITH ASME Y14.5M-1994 AS AMENDED BY THE GM GLOBAL DIMENSIONING AND TOLERANCING ADDENDUM-2001. SEPARATE PATTERNS OF FEATURES MAY BE BASED SEPARATELY REGARDLESS OF DATUM REFERENCES.
ALL DIMENSIONS ARE IN MILLIMETERS

REFERENCE:

THIRD ANGLE PROJECTION
DO NOT SCALE
USE MATH DATA
CAD UG UNIGRAPHICS

DELPHI
DELPHI PACKARD ELECTRIC SYSTEMS
WARREN, OH

		DATE
DR		
APVD1	M.A. CHAPIN	15DE95
APVD2	MARK KOTY	09AU90
APVD3	J. GABRIEC	13MY91
APVD4		
APVD5		

SUBSTANCES OF CONCERN AND RECYCLED CONTENT PER DELPHI 10949001

MATERIAL: SEE DRAWING

DRAWING NAME: ASM CONN 5 F M/P 280 BLK SLDFLXLK

DRAWING NUMBER: 12110539

SIZE	SCALE	FRAME NO	SHEET NO	STG	REV	N/P
A1x3	2:1	1 OF 2	1 OF 1	R	06	-

1S110236