

5			4				3 L			<u>-</u>					
RE / A T I ON	INSULATION CRIMP OPTION	L	F ±0.03	G ±0.03	J ±0.03	±0.03	±0.03	M ±0.03	N ±0.03	P ±0.03	₽ ±0.03	\$ ±0.03	±0.03	U ±0.03	
		0.92	0.53	0.12	2.56	1.99		1.97							-
ICTOR ATION	2	.09	0.63	0.16	3.06	2.38	0.60	2.36	0.16	3.25	2.53	2.50	 N / A	 N / A	
ATION	2						0.60		0.18	3.50	2.72	2.69	N/A	N/A	R
ICTOR ICTOR		I.36	0.79	0.22	3.81 4.06	2.96 3.12									
ICTOR		1.54	0.89	0.24	4.31	3.35		3.32							
ATION JCTOR	2	. 72	0.99	0.28	4.81	3.70	0.60		0.25	4.50	3.50	3.46	N / A 	N / A 	
ATION	2						0.60		0.30	5.12	3.98	3.94	N/A	N / A	Q
ATION ATION							0.60		0.32	5.38 5.10	4.17	4.13	I.92	.	
ATION	2						1.00		0.40	5.50	5.00	4.94			
ATION	2						1.00		0.47	6.10	5.60	5.52			
															P
<u>CR</u>	ΜP		_	VFOF	RMA <sup>-</sup>		n (re	F.	ONL	<u> </u>					
orm Crimf	TOOLIN Popti	G DES ON I	IGN		S T A	ANDAR IN:	d "D" sulatio	FORM N CRI	tool Mp of	ING [ Ption	DESIG 2	Ν			
															0
	(	R0.13)	)					S	◀—						
/	/	U (F	RAD)						P(R	AD)					
	SI SI	ee det	AIL	Y 2							——S E E	DETA	IL Y	′ 3	
	Z							$\bigwedge$							   N
		(	R5.I)	2 X								- (R5.	.   ) 2 X		. \
						<u>▼</u>	¢			+					
		4.3			Ν						4.3				
~		<u> </u>							×		₹				
~ ANV					3	.0°21			~						M 
P(RA	AD)		ſ				_ <b>_</b>	R	<b>↓</b>						
			_		< 0 F	.30 LAT 2	X								
			[	DETAIL			~~								
												_	_		
											<b></b>				
											ACTU	AL SIZ	Z E		
		ONFORM					SECTION								
	S E	AE/USC ECTION AE/USC	5.2.	2		PT TE	RMINAL	BEND	RESIS	TANCE					
	S A	AE/USC DRD SD	AR-21		2										
		ERMINA KCEPT			cal a	BOUT	CENTERL	INE							
	3) D	IMENSI	ONAL	TOLER	ANCE:										
	2	PLACE PLACE NGULAR	±0.												
	ANGULAR $\pm$ 3° 4) FOR CAVITY SPECIFICATION INFORMATION														
	4) FOR CAVITY SPECIFICATION INFORMATION REFERENCE F.C.I. DRAWING 15007 FOR UNSEALED CAVITY AND F.C.I. DRAWING CI5006 FOR SEALED CAVITY														
$\wedge$		EE USC LADE I				P-00	FOR DI	RECT	CONNE	СТ МА	TING				G
	() 6) Ql	JALITY	ASSU	RANCE	REQU	IREME	NTS PER	USCA	r req	UIREM	ENTS.	(2)			
K	x)7) IN DI	) QUALITY ASSURANCE REQUIREMENTS PER USCAR REQUIREMENTS.(2) ) INDICATES IN-PROCESS INSPECTION FOR MANUFACTURING DIMENSIONS OR SPECIFICATIONS. (3)													
G	<u> </u>	NDICAT	ES IN	- P R O C	ESS G	AGE I	NSPECTI	on fo	R						
G 8) INDICATES IN-PROCESS GAGE INSPECTION FOR MANUFACTURING DIMENSIONS. (2) 9) ONLY BALLOON DIMENSIONS AND NOTES ARE REQUIRED TO BE MEASURED												_			
AT PPAP. ALL OTHER DIMENSIONS AND NOTES ARE REQUIRED TO BE MEASURED AT PPAP. ALL OTHER DIMENSIONS AND NOTES WITHOUT BALLOONS SHOULD BE TREATED AS INFORMATIONAL.												F			
	10) L <i>A</i>	AST BA	LLOON	NUMB	ER: 7	7									

CRIMP NOTES:

I. THE CRIMP AND CRIMP TOOLING DIMENSIONS HAVE BEEN ESTABLISHED AND VALIDATED TO USCAR-21 USING FCI TOOLS, MACHINES, AND PROCESSES. THE DIMENSIONS SHOWN ARE FOR REFERENCE. 2. WIRING SUPPLIERES ARE TO DEVELOP AND VALID THIER CRIMPING SPECIFICATIONS AND PROCESSES ACCORDING TO ALL ASPECTS OF USCAR-21 REV.2. NOTE THAT AS STATED IN USCAR-21, WIRING SUPPLIER DEFINED CRIMPING SPECIFICATIONS AND CRIMPING PROCESSES MAY IMPA CONNECTOR FUNCTIONS. (SEE USCAR-21 REV.2 4.2.5.1); CONTACT DELPHI ENGINEERING FOR ANY NEEDED ASSISTANCE IN THIS REGARD. 3. DESIGN REFERENCE INFORMATION: IT IS RECOMMENDED THAT THE NOTED NOMINAL OFFSET BETWEEN THE CONDUCTOR GRIP AND INSULATION GRIP NOT BE CHANGED BY THE CRIMPING PROCESS. RESIZING THIS FEATURE DURING CIMPING CAN NEGATIVELY IMPACT CONNECTOR SYSTEM FUNCTION. ACCEPTBILITY OF THE ACTUAL NOTED CRMPED OFFSET, CRIMPING SPECIFICATION, AND CRIMPING PROCESS USED IS TO BE DETERMINED AS DIFINED IN CRIMP NOTE 2. 4. DESIGN FEFERENCE INFORMATION: CRIMPED TERMINALS ARE USED ON VARIOUS CONNECTOR APPLICATIONS. NORMALLY, FOR DESIGN PURPOSES, A CONDUTOR AND INSULATION CRIMP ANGLE TOLERANCE OF +/-3 DEGREES RELATIVE TO TERMINAL DATUM "B" CAN BE ASSUMED. ACTUAL CRIMP TOLERANCES DEFINED WITHIN A HARNESS MAKER'S CRIMPING PROCESS FOR A SPECIFIC CONNECTOR APPLICATION MUST BE VARIFIED AS SUITABLE BY FULL VALIDATION TO ALL ASPECTS OF USCAR-21 INCLUDING SECTION 4.2.5.

3 - 0 0	039		ECO42	0421054 - DELPHI PART NUMBERS ADDED										
REVISED AND REDRAWN IN PDS.												B		
ECN-N	NO.	ZONE		CHANGE DESCRIPTION										
PRODUCT SPE	PACKAGIN	G SPEC.	APPLICA	ATION SPEC.	COPYRIGH	COPYRIGHT DELPHI CORPORATION AND/OR ITS AFFILIATES. ALL RIGHTS RESERVED. REVISED								
			-	THIS DRAWING IS THE PROPERTY OF DELPHI CORPORATION AND CONTAINS DELPHI CONFIDENTIAL INFORMATION. THE REPRODUCTION, DISTRIBUTION AND UTILIZATION OF THIS DOCUMENT OR ITS RELATED CAD MATH DATA, AS WELL AS COMMUNICATION OF ANY CONTENT TO OTHERS, WITHOUT EXPRESS AUTHORIZATION, IS PROHIBITED.										
TOLERANCES SEE NO		EE NOT	FS	MATERIAL :	:	-	SURFACE FINISH		C	ELP		CAD SYSTEM		
COUNTERPART Nr.			 COLOUR : -			-	DEL	DELPHI PACKARD ELECTRICAL/ELECTRONIC ARCHITECTURE NOVI, MI						
C   5004-CUST						-			фП-	DIMENSION IN	DWG SIZE			
DO NOT MEASURE DRAWING				TOOL NO.	C	)472	ECO Loc. Code A	N	G	3RD ANGLE	MILLIMETERS	A O		
	DATE	NAM	4E	TITLE				DRAWI	NG NUMBE	R	REV.	APPROVAL LEVEL	A	
CREATED BY	2006-06-26							C15005-CUST U						
MODIFIED BY 2013/01/25			Bob CUE	PROJECT				STATE	9			SHEET		
CHECKED BY	2013/01/25	Mat	t MAJOR		[APEX	2.80MM	SYSTEM]	PART NU			REV.			
APPROVED BY	2013/01/25	Su	cha SIAN	ESR NO.	=	CAT. N	0					1		
FILE NAME CISOOS-CUST			TZU	DOCUMENT U	UNDER PDS CON	NTROL NO MOD	IFICATION ALLOWED OUTS	IDE		See Table	-	SCALE 5 00	h	