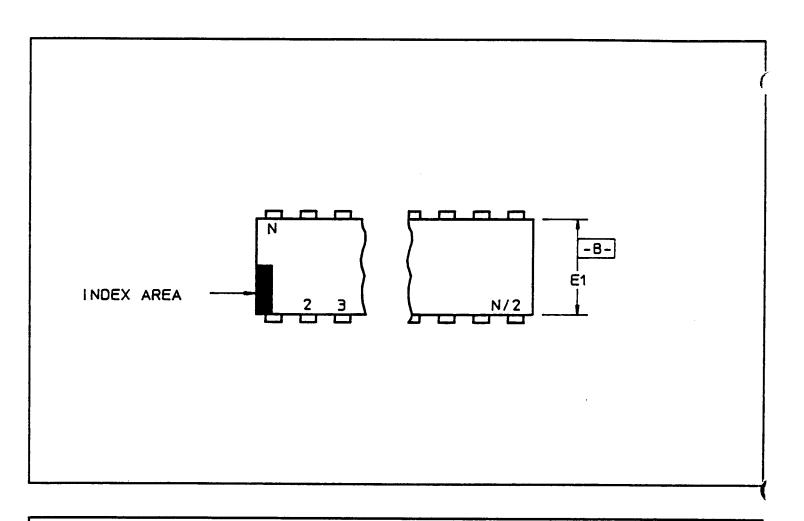
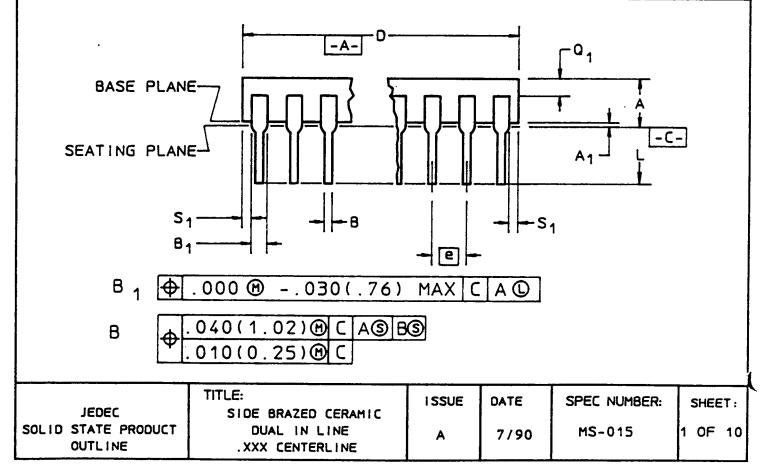
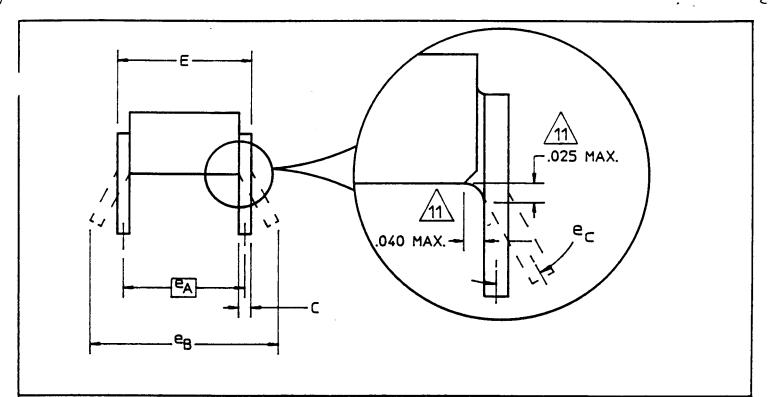
MS-015

.300, .400, .600, & .900" DUAL IN LINE
.100 CENTER
CERAMIC
SIDE BRAZED

STANDARD







NOTES:

- 1. CONTROLLING DIMENSIONS: INCH. IN CASE OF CONFLICT BETWEEN ENGLISH AND METRIC DIMENSIONS, THE INCH DIMENSIONS CONTROL.
- 2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M-1982.
- 3. SYMBOLS ARE DEFINED IN THE 'MS SERIES SYMBOL LIST' IN SECTION 2.2 OF PUBLICATION NO. 95.
- 4. DIMENSIONS A, A AND L ARE MEASURED WITH THE PACKAGE SEATED IN JEDEC SEATING PLANE GAUGE GS-3. DIMENSION A INCLUDES THE LID THICKNESS, AND MAY INCREASE TO .260 INCHES MAXIMUM WHEN AN EPROM LID IS USED.
- 5. D AND E 1 DIMENSIONS DO NOT INCLUDE PARTICLES (BURRS AND/OR PROJECTIONS) OF PACKAGE MATERIAL. SUCH PARTICLES SHALL NOT EXCEED .010 INCHES (.25 mm) PER SIDE. INCLUDES ALLOWANCES FOR GLASS OVERRUN AND MENISCUS, AND LID-TO-BASE MISMATCH.
- 6. E AND eA ARE MEASURED WITH THE LEADS CONSTRAINED TO BE PERPENDICULAR TO PLANE C.
- 7. e AND e ARE MEASURED AT THE LEAD TIPS WITH THE LEADS UNCONSTRAINED.
- 8. N IS THE MAXIMUM NUMBER OF TERMINAL LEADS.
- 9. MAXIMUM LEAD THICKNESS INCLUDES ALL LEAD FINISHES. MINIMUM BASE MATERIAL SHALL BE . 009 INCHES THICK.
- 10. ANY RAISED IRREGULARITY ON THE TOP SURFACE (STEP, MASS, ETC.) SHALL BE SYMMETRICAL ABOUT THE LATERAL AND LONGITUDINAL PACKAGE CENTERLINES.

11 MAXIMUM FILLET, INCLUDING SOLDER COAT, IF ANY.

- 12. MEASURED FROM THE TOP OF THE CERAMIC BODY TO THE NEAREST METALLIZATION OR LEAD.
- 13. MEASURED FROM THE END OF THE CERAMIC BODY TO THE NEAREST METALLIZATION OR LEAD.

	TITLE:	ISSUE	DATE	SPEC NUMBER:	SHEET:
JEDEC SOLID STATE PRODUCT OUTLINE	SIDE BRAZED CERAMIC DUAL IN LINE .XXX CENTERLINE	A	7/90	MS-015	2 OF 10

S	DIMENS				нот	=		5	8	
Y M B	ALL			N O T	VARIAT	I ONS		D	N	ITEM NO.
O L	MIN	۲	IAX	E			мім	MAX		
A	. 085	. 2	200	4	AA		. 500	.540	8	10-272
A1	. 025	. 0	70	4	AB		.730	.770	14	10-272
В	. 015	. 0	22	9	AC		.780	. 820	16	10-272
B1	. 045	. 0	65		AD		.880	. 920	18	10-272
С	. 009	.0	15	9	AE		. 980	1.020	20	10-272
0	SEE VA	RIATI	ON	5	AF		1.080	1.120	22	10-272
E	. 300	. 3	125	6	AG		1.180	1.220	24	10-272
E1	. 280	.3	110	5	AH		1.380	1.420	28	10-272
e	. 100 BSC				•	<u> </u>				
@A	.300 BSC			6						·
L	. 125	. 2	200	4						
И	SEE VA	RIATI	ON	8					:	
01	. 005	-		12						
e8		. 4	00	.7			·		:	
eC	00	-	· 	7						
S1	. 005	-	· 	13			-			
ISSUE	A		· · · · · · · · · · · · · · · · · · ·	h						
NOTES	1, 2	. З								
REF	11.10 ITEM 272									
	JEDEC		TITLE:	RAZED C	ERRAMIC	ISSUE	DATE	SPEC NU	MBER:	SHEET:
SOLID	STATE PROD	DUCT	C	DUAL IN L	INE	Α	7/90	MS-015		3 OF 10

S	DIMENS				пот	E		5	8	
Y M B	ALL			N O T	VARIAT	IONS		0	. N	ITEM NO.
0 L	MIN	M	IAX	ε			MIN	MAX		
_	. 085		00	4	BA		. 980	1.020	20	10-272
A1	. 025		70	4	88		1.060	1.100	22	10-272
В	. 015		22	9	вс		1.180	1.220	24	10-272
81	.045	ł	65		80		1.380	1.420	28	10-272
c	. 009		15	9						
0	SEE VAI	,		5						
E	. 400		25	6			! !			
E1	. 380			5						
	[·									
e eA	.100 BSC .400 BSC		6							
L	. 125	1	200	4						
N	SEE VAI	•		8						
01	.005		OIV	12						
ев	.003		i00	7						
	0°			7						
eC		-	· 							
51	. 005	-		13						
ISSUE	A									
NOTES	1, 2, 3									
REF	11.10 ITEM 272						-			
	<u></u>	_	TITLE:		<u>L</u>	ISSUE	DATE	SPEC NU	MBER:	SHEET:
SOLID	JEDEC STATE PROI OUTLINE	DUCT	C	IRAZED CI DUAL IN L O'CENTEI	INE	A	.7/90	MS-015		4 OF 10

S	DIMEN			нот	E		5	8	
Y M B	ALL		N 0 T	VARIAT	I ONS		0	И	ITEM NO.
O L	MIN	MAX	E			MIN	MAX		
A	. 085	. 200	4	CA	·	1.180	1.220	24	10-272
A1	. 025	. 070	4	СВ		1.380	1.420	28	10-272
В	. 015	. 022	9	сс		1.580	1.620	32	10-272
B1	.045	. 065		CD		1.780	1.820	36	10-272
С	.009	.015	9	CE		1.980	2.020	40	10-272
0	SEE VAR	RIATION	5	CF		2.375	2.430	48	10-272
E	. 600	.600 .625		cg		2.575	2.630	52	10-272
E1	.580 .610		5						
e	. 100 BSC						-		
eA.	.600	BSC	6						
L	. 125	. 200	4						
N	SEE VAR	RIATION	8						
Q1	. 005		12						
e8		.700	7						
eC	o°		7					}	
S1	. 005		13					<u>}</u>	
ISSUE	A								
NOTES	NOTES 1, 2, 3								
REF	F 11.10 ITEM 272								
	JEDEC	TITLE:	204750 6	EDO A MIC	ISSUE	DATE	SPEC NU	MBER:	SHEET:
SOLID	JEDEL STATE PROI OUTLINE	DUCT	BRAZED C DUAL IN L O'CENTEI	INE	A	7/90	MS-015		5 OF 10

(

s	DIMENS	SIONS			NOT	E		5	8	
Y	ALL	IN		N 0						ITEM
B 0				ī	VARIATIONS			0	N	NO.
Ľ	MIN	۲	IAX	,			MIN	MAX		
A	. 085	. 2	200	4	DA		2.475	2.530	50	10-272
A1	. 025	. 0	70	4	08		3.175	3.230	64	10-272
. в	.015	. 022		9			 	•		
B1	.045	. 0	65							
c	. 009	. 0	15	9						
0	SEE VA	RIATI	ON	5			ļ			
Ε	. 900	. 9	25	6	٠			•		
E1	. 880	.880 .910		5						
e	.100 BSC						,			
(eA)	. 900 BSC			6						
L	. 125	. 2	200	4						
N	SEE VAI	RIATI	ON	8						
01	. 005	-	,	12						
e 8		1.0	000	7	1					
eC	00	_		7						
S1	. 005	-		13	!					
ISSUE	A							·		
NOTES	1, 2, 3							:		
REF	11.10 ITEM 272				•					
			TITLE:			ISSUE	DATE	SPEC NU	MBER:	SHEET:
SOLID	JEDEC STATE PROD OUTLINE	OUCT	C	RAZED C DUAL IN L D'CENTEI	INE	A	7/90	MS-015		6 OF 10

										
S Y	DIMEN:		5	N	NOT	E	,	5	8	,
м	MILLI		RS	0	VARIAT	ONE		6	N	ITEM
B 0				T E	VARIA	IUNS		0	N	NO.
L	MIN	_	1AX				MIN	MAX		
A	2.159	5.0	80	4	AA		12.700	13.716	8	10-272
A1	0.635	0.635 1.778 4		AB		18.542	19.558	14	10-272	
8	0.381 0.559		159	9	AC		19.812	20.828	16	10-272
81	1.143	1.6	51		AD		22.352	23.368	18	10-272
С	0.229	l 0.3	181	9	AE		24.892	25.908	20	10-272
0	SEE VA	RIATI	ON	5	AF		27 . 432	28.448	22	10-272
E	7.620	8.2	:55	6	AG		29.972	30.988	24	10-272
E1	7.112 7.874		5	AH		35.052	36.068	28	10-272	
e	@ 2.540 BSC									
e A	7.620	BSC		6	`					
L	3.175	5.0	80	4					:	
N	SEE VAI	RIATI	ON	8						
01	0.127	-		12					-	
eβ		10.1	60	7						.
eC	. 00	-		7						
S1	0.127	-		13				:		
ISSUE	A									
NOTES	NOTES 1, 2, 3									
REF	11.10 ITEM 272									
			TITLE:			ISSUE	DATE	SPEC NU	MBER:	SHEET:
sould	JEDEC STATE PROD OUTLINE	DUCT	c	RAZED CI DUAL IN L Down CENT	INE	Α	7/90	MS-015		7 OF 10

S	DIMENS			NOT	E		5	8	
Y M B	ALL MILLIN		N 0 T	VARIAT	IONS		D	N	ITEM NO.
0 L	MIN	MAX	Ε			MIN MAX			
A	2.159	5.080	4	ва	•	24.892	25.908	20	10-272
A1	. 635	1.778	4	88		26.924	27.940	22	10-272
В	. 381	. 559	9	80		29.972	30.988	24	10-272
81	1.143	1.651		80		35.052	36.068	28	10-272
С	. 229	.381	9			,	•		
o	SEE VAF	RIATION	5						
ε	10.160	10.795	6						
E1	9.652 10.414		5						
e	2.540 BSC								
@A	10.16	BSC	6						
L	3.175	5.080	4						
N	SEE VA	RIATION	8						
01	. 127		12						
eв		12.700	7						
eC	00		7		•				
S 1	. 127		13						
ISSUE	A		<u> </u>						
NOTES	1, 2, 3								
REF	11.10 ITEM 272								:
	TITLE:				ISSUE	DATE	SPEC NU	MBER:	SHEET:
SOLID	JEDEC STATE PROC OUTLINE	DUCT	E BRAZED C DUAL IN L 0.160mm CENT	INE	А	7/90	MS-015		8 OF 10

S	DIMEN	SIONS		NOT	E		5	8	
Y M B	ALL MILLII	IN METERS	N 0 T	VARIAT	IONS		0	N	ITEM NO.
L	MIN	MAX	€			MIN	MAX		
Α	2.159	5.080	4	CA		29.972	30.988	24	10-272
A1	. 635	1.778	4	СВ		35.052	36.068	28	10-272
В	. 381	. 559	9	cc		40.132	41.148	32	10-272
81	. 143	1.651		CD		45.212	46.228	36	10-272
С	. 229	. 381	9	CE		50.292	51.308	40	10-272
0	SEE VA	ARIATION	5	CF		60.325	61.722	48	10-272
E	15.240	15.875	6	cg		65.405	66.802	52	10-272.
E1	14.732	15.494	5						
•	2.540 BSC								
e A	15.240	BSC	6						
L	3. 175	5.080	4						
N	SEE VA	RIATION	8						
Q1	. 127		12						
e 8		17.780	7					• .	
еC	o°		7						
S1	. 127		13					 - 	
		•							
ISSUE	A		<u>. </u>						
NOTES	S 1, 2, 3								
REF	11.10 ITEM 272								
SOLID	JEDEC SIDE BRAZED CE SOLID STATE PRODUCT DUAL IN LI				ISSUE A	7/90	SPEC NU		SHEET: 9 OF 10
	OUTLINE		Omm CENT						

S Y	DIMEN: ALL		l N	NOT	Έ		5	8	
M B		METERS	0 T	VARIAT	IONS		D	N	ITEM NO.
0 L	MIN	MAX	Ε			MIN	MAX		
A	2.159	5.080	4	DA			64.262	50	10-272
A1	0.635	1.778		DB			82.042		10-272
В	0.333		9	J 56		00.043	02.042	64	10-2/2
		0.559	'						
81	1.143	1.651					;		
С	0.229	0.381	9						
D		RIATION	5						
E	22.860	23.495	6		٠				
E1	22.352	23.114	5				:		
e	2.540 BSC								
(AS)	22.860 BSC		6						
L	3.175	5.080	4	! !					
N	SEE VAI	RIATION	8						
Q1	0.127		12						
eв		25.400	7						
eC	o°		7	1					
S1	0.127		13						
	•	•							
ISSUE	Α								
		5							
NOTES	1, 2, 3								
REF	11.10 ITEM 272								
SOLID :	JEDEC SIDE BRAZED CONTACT DUAL IN LOUTLINE 22.860mm CENT			INE	ISSUE A	7/90	SPEC NUI		SHEET: 10 OF 10