

ORDERING CODES

IC PACKAGE CODES

- A = VQFP (Very Small QFP)
- C = Ceramic Sidebrazed
- D = Cerdip
- E = Ceramic Window
- F = Plastic Quad Flatpack
- G = Ceramic PGA (Pin Grid Array)
- H = SSOP (Slim Small Outline Package)
- I = PCB Chip Carrier
- K = Cerdip Window
- L = Ceramic LCC (Leadless Chip Carrier)
- P = Plastic DIP
- S = SOIC (Small Outline Integrated Circuit)
- V = Plastic Leaded Chip Carrier

SUPPORT TOOL PACKAGE CODES

T = Emulation Module Z = Support Tools

ENVIRONMENTAL

PREFERRED

C = Plastic Standard E = Hermetic Standard

LONGER LEAD TIME

A = Hermetic Stressed B = 883 Class B Military D = Plastic Stressed

TEMPERATURE

PREFERRED Standard: $S = 0^{\circ}C$ to $+70^{\circ}C$

LONGER LEAD TIME

Extended: $E = -40^{\circ}C$ to $+100^{\circ}C$ (-40°C to $+105^{\circ}C$ for Consumer Products) Military: $M = -55^{\circ}C$ to $+125^{\circ}C$

EXAMPLE

Z84C0010PEC is a CMOS 8400, 10 MHz, Plastic, -40°C to 100°C, Plastic Standard Flow.

Z 84C00 10 P E C XXXX



PACKAGE INFORMATION

<u>PDIP</u> (Plastic Dual In-Line Package)

- 1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age
- Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak





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SYMBOL	MILLI	METER	INC	СН
STIDUL	MIN	MAX	MIN	MAX
A1	0.51	0.81	.020	.032
SA	3.25	3.43	.128	.135
В	0.38	0.53	.015	.021
B1	1.14	1.65	.045	.065
С	0.23	0.38	.009	.015
D	22.35	23.37	.880	.920
E	7.62	8.13	.300	.320
E1	6.22	6.48	.245	.255
e	2.54	TYP	.100 TYP	
eA	7.87	8.89	.310	.350
L	3.18	3.81	.125	.150
Q1	1.52	1.65	.060	.065
2	0.89	1.65	.035	.065



CONTROLLING DIMENSIONS : INCH

18-Lead Plastic Dual-In-Line Package (DIP)

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PACKAGE INFORMATION

PDIP (Plastic Dual In-Line Package) (Continued)

- 1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age
- Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak







SYMBOL	MILLI	METER	INC	СН
	MIN	MAX	MIN	МАХ
<u>A</u> A1	0.38	0.81	.015	.032
A2	3.25	3.68	.128	.145
В	0.41	0.51	.016	.020
B1	1.47	1.57	.058	.062
С	0.20	0.30	.008	.012
D	25.65	26.16	1.010	1.030
E	7.49	8.26	.295	.325
E1	6.10	6.65	.240	.262
e	2.54	TYP	.100	TYP
eA	7.87	8.89	.310	.350
L	3.18	3.43	.125	.135
Q1	1.42	1.65	.056	.065
S	1.52	1.65	.060	.065

CONTROLLING DIMENSIONS : INCH

20-Lead Plastic Dual-In-Line Package (DIP)

PACKAGE INFORMATION

- 1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age
- Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak



SYMBOL	OPT #	MILLIMETER		INC	H
STINDOL	011 #	MIN	MAX	MIN	MAX
A1		0.51	1.02	.020	.040
A2		3.18	3.94	.125	.155
8		0.38	0.53	.015	.021
R1	01	1.40	1.65	.055	.065
UT.	02	1.14	1.40	.045	.055
С		0.23	0.38	.009	.015
D	01	36.58	37.34	1.440	1.470
5	02	35.31	35.94	1.390	1.415
E		15.24	15.75	.600	.620
E 1	01	13.59	14.10	.535	.555
E 1	02	12.83	13.08	.505	.515
ß		2.54	түр	.100	TYP
eA		15.49	16.76	.610	.660
L		3.05	3.81	.120	.150
01	01	1.52	1.91	.060	.075
21	02	1.52	1.78	.060	.070
	01	1.52	2.29	.060	.090
3	02	1.02	1.52	.040	.060

28-Lead Plastic Dual-In-Line Package (DIP)

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PACKAGE INFORMATION

- 1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age
- Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak



40-Lead Plastic Dual-In-Line Package (DIP)

PACKAGE INFORMATION

- 1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age
- Mark Permanency
 Soak into Alpha 2110 at 63-70°C.
 sec. duration each soak.
 Mech. brush after each soak



SANDON	MILLIMETER		INCH	
JIMOUL	MIN	MAX	MIN	MAX
A1	0.38	0.81	.015	.032
A2	3.68	4.19	.145	.165
В	0.38	0.53	.015	.021
B1	1.02	1.52	.040	.060
C	0.23	0.38	.009	.015
D	61.98	62.74	2.440	2.470
E	15.24	15.75	.600	.620
E1	13.72	14.22	.540	.560
6	2.54	TYP	.100 TYP	
eA	15.49	16.76	.610	.660
L	3.18	3.81	.125	.150
Q1	1.52	1.91	.060	.075
S	1.52	2.29	.060	.090



48-Lead Plastic Dual-In-Line Package (DIP)

PACKAGE INFORMATION

- 1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age
- Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak



52-Lead Plastic Dual-In-Line Package (DIP)

PACKAGE INFORMATION

PDIP (Plastic Dual In-Line Package) (Continued)

- 1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age
- Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak







SYMBO	MILLI	METER	IN	сн
STRUCE	MIN	MAX	MIN	MAX
A1	0.38	1.07	.015	.042
A2	3.68	3.94	.145	.155
В	0.38	0.53	.015	.021
B1	0.94	1.09	.037	.043
C	0.23	0.38	.009	.015
D	57.40	58.17	2.260	2.290
£	18.80	19.30	.740	.760
E1	16.76	17.27	.660	.680
8	1.78	TYP	.070 TYP	
eA	19.30	20.32	.760	.800
L	3.18	3.81	.125	.150
Q1	1.65	1.91	.065	.075
S	1.02	1.78	.040	.070

CONTROLLING DIMENSIONS : INCH



PACKAGE INFORMATION

<u>SDIP</u> (Shrink Dual In-Line Package)

- 1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age
- Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak



CYLIDOL	MILLIMETER		INC	н	
SIMOUL	MIN	MAX	MIN	MAX	
A1	0.51		.020		
A2		4.32		.170	
в	0.38	0.56	.015	.022	
B1	0.76	1.27	.030	.050	
С	0.20	0.30	.008	.012	
D	36.70	36.96	1.445	1.455	
E	15.24	15.88	.600	.625	
E1	13.72	14.22	.540	.560	
œ	1.78	TYP	.070 TYP		
eA	15.49	16.76	.610	.660	
L	3.05	3.43	.120	.135	
Q1	1.65	1.91	.065	.075	
S	0.51	0.76	.020	.030	

CONTROLLING DIMENSIONS : INCH





42-Lead Shrink Dual-In-Line Package (SDIP)

PACKAGE INFORMATION

PLCC (Plastic Leaded Chip Carrier)

1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age

- Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak
- 3. Coplanarity Maximum 4 mils deviation



28-Lead Plastic Leaded Chip Carrier (PLCC)

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PACKAGE INFORMATION

PLCC (Plastic Leaded Chip Carrier)

1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age

2. Mark Permanency 3X soak into Alpha 2110 at 63-70°C. 30 sec. duration each soak. Mech. brush after each soak

3. Coplanarity Maximum 4 mils deviation



SYMBOL	MILLIMETER		INCH	
STIMBOL	MIN	МАХ	MIN	МАХ
A	4.27	4.57	0.168	0.180
A1	2.41	2.92	0.095	0.115
D/E	17.40	17.65	0.685	0.695
D1/E1	16.51	16.66	0.650	0.656
D2	15.24	16.00	0.600	0.630
(9)	1.27 TYP		0.050	Ο ΤΥΡ

NOTES:

11:5: 1. CONTROLLING DIMENSION : INCH 2. LEADS ARE COPLANAR WITHIN 0.004". 3. DIMENSION : <u>MM</u> INCH

44-Lead Plastic Leaded Chip Carrier (PLCC)

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PACKAGE INFORMATION

PLCC (Plastic Leaded Chip Carrier) (Continued)

- 1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age
- Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak
- 3. Coplanarity Maximum 4 mils deviation



68-Lead Plastic Leaded Chip Carrier (PLCC)

PACKAGE INFORMATION

PLCC (Plastic Leaded Chip Carrier) (Continued)

- 1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age
- Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak
- 3. Coplanarity Maximum 4 mils deviation



84-Lead Plastic Leaded Chip Carrier (PLCC)

[⊗]ZiL05

PACKAGE INFORMATION

<u>VQFP</u> (Very Small Quad Flat Pack)

1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age

- 2. Mark Permanency 3X soak into Alpha 2110 at 63-70°C. 30 sec. duration each soak. Mech. brush after each soak
- 3. Coplanarity Maximum 4 mils deviation



SYMBOL	MILLIMETER		INCH	
	MIN	MAX	MIN	MAX
A	1.35	1.60	.053	.063
A1	0.05	0.20	.002	.008
A2	1.30	1.50	.051	.059
b	0.15	0.26	.006	.010
с	0.10	0.18	.004	.007
HD	8.60	9.40	.339	.370
D	6.90	7.10	.272	.280
HE	8.60	9.40	.339	.370
ε	6.90	7.10	.272	.280
e	0.50	0.50 TYP		TYP
L	0.30	0.70	.012	.028
LE	0.90	1.10	.035	.043

1. CONTROLLING DIMENSIONS : MM 2. MAX COPLANARITY : <u>.10mm</u> .004"

48-Lead Plastic Very Small Quad Flat Pack (VQFP)

[⊗]2iL05

PACKAGE INFORMATION

(Very Small Quad Flat Pack) (Continued) VQFP

- MIL-STD-883C Method 2003.5 1. Solderability Eight Hours Steam Age
- 2. Mark Permanency 3X soak into Alpha 2110 at 63-70°C. 30 sec. duration each soak. Mech. brush after each soak
- 3. Coplanarity Maximum 4 mils deviation



SYMPOL	MILLIMETER		INCH	
SIMBUL	MIN	MAX	MIN	МАХ
A	1.40	1.60	0.055	0.063
A1	0.05	0.15	0.002	0.006
A 2	1.35	1.45	0.053	0.057
b	0.17	0.27	0.007	0.011
c	0.09	0.20	0.004	0.008
HD	11.75	12.25	0.463	0.482
D	9.90	10.10	0.390	0.398
HE	11.75	12.25	0.463	0.482
E	9.90	10.10	0.390	0.398
e	0.50	түр	0.019	7 TYP
L	0.45	0.75	0.018	0.030
LE	1.00 REF		0.039	REF
X	-	0.13	-	0.005

1. CONTROLLING DIMENSIONS : mm 2. MAX. COPLANARITY

: <u>.10mm</u> 0.004"

64-Lead Plastic Very Small Quad Flat Pack (VQFP)

PACKAGE INFORMATION

VQFP (Very Small Quad Flat Pack) (Continued)

- 1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age
- 2. Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak
- 3. Coplanarity Maximum 4 mils deviation



100-Lead Plastic Very Small Quad Flat Pack (VQFP)

PACKAGE INFORMATION

VQFP (Very Small Quad Flat Pack) (Continued)

- 1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age
- 2. Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak

3. Coplanarity Maximum 4 mils deviation



144-Lead Plastic Very Small Quad Flat Pack (VQFP)

[⊗]ZiL05

PACKAGE INFORMATION

<u>QFP</u> (Plastic Quad Flat Pack)

1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age

- 3X soak into Alpha 2110 at 63-70°C. 2. Mark Permanency 30 sec. duration each soak. Mech. brush after each soak
- 3. Coplanarity Maximum 4 mils deviation



SYMBOL	MILLIMETER		INCH	
STRUCE	MIN	МАХ	MIN	MAX
A1	0.05	0.25	.002	.010
A2	2.00	2.25	.078	.089
b	0.25	0.45	.010	.018
с	0.13	0.20	.005	.008
HD	13.70	14.15	.539	.557
D	9.90	10.10	.390	.398
HE	13.70	14.15	.539	.557
E	9.90	10.10	.390	.398
Ð	0.80 TYP		.0315	ТҮР
L	0.60	1.20	.024	.047

NOTES: 1. CONTROLLING DIMENSIONS : MILLIMETER 1. CONTROLLING DIMENSION 10 2. LEAD COPLANARITY : MAX .10 .004"

44-Lead Plastic Quad Flat Pack (QFP)

PACKAGE INFORMATION

QFP (Plastic Quad Flat Pack) (Continued)

1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age

Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak.

3. Coplanarity Maximum 4 mils deviation



64-Lead Plastic Quad Flat Pack (QFP)

PACKAGE INFORMATION

QFP (Plastic Quad Flat Pack) (Continued)

1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age

- Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak.
- 3. Coplanarity Maximum 4 mils deviation



SYMBO	MILLI	VETER	INCH	
510000	MIN	MAX	MIN	МАХ
A1	0.10	0.30	.004	.012
A2	2.60	2.80	.102	.110
b	0.30	0.45	.012	.018
с	0.13	0.20	.005	.008
HD	23.70	24.15	.933	.951
D	19.90	20.10	.783	.791
HE	17.70	18.15	.697	.715
E	13.90	14.10	.547	.555
e	0.80 TYP		.031	5 ΤΥΡ
L	0.70	1.10	.028	.043



NOTES:

1. CONTROLLING DIMENSIONS: MILLIMETER 2. MAX COPLANARITY: <u>.10</u> .004

80-Lead Plastic Quad Flat Pack (QFP)

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PACKAGE INFORMATION

QFP (Plastic Quad Flat Pack) (Continued)

- 1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age
- Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak.
- 3. Coplanarity Maximum 4 mils deviation



SYMBOL	MILLI	METER INC		СН
	MIN	МАХ	MIN	МАХ
A1	0.10	0.30	.004	.012
A2	2.60	2.80	.102	.110
b	0.25	0.40	.010	.016
с	0.13	0.20	.005	.008
HD	23.70	24.15	.933	.951
D	19.90	20.10	.783	.791
HE	17.70	18.15	.697	.715
E	13.90	14.10	.547	.555
e	0.65 TYP		.0256	ТҮР
L	0.70	1.10	.028	.043



NOTES: 1. CONTROLLING DIMENSIONS : MILLIMETER 2. MAX COPLANARITY : <u>.10</u> .004

100-Lead Plastic Quad Flat Pack (QFP)

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PACKAGE INFORMATION

QFP (Plastic Quad Flat Pack) (Continued)

- 1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age
- Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak.
- 3. Coplanarity Maximum 4 mils deviation



SYMBOL	MILLIMETER		INCH	
	MIN	MAX	MIN	MAX
A	3.42	4.07	.135	.160
A1	0.25	-	.010	-
A2	3.17	3.67	.125	.144
ь	0.22	0.38	.009	.015
с	0.13	0.23	.004	,00 9
HD	30.95	31.45	1.219	1.238
D	27.90	28.10	1.098	1.106
HE	30.95	31.45	1.219	1.238
ε	27.90	28.10	1.098	1.106
e	0.65 TYP		.026	TYP
L	0.65	0.95	.026	.037
LE	1.60 REF		.063	REF



CONTROLLING DIMENSIONS : MM MAX COPLANARITY : <u>.10mm</u> .004"

144-Lead Plastic Quad Flat Pack (QFP)

PACKAGE INFORMATION

QFP (Plastic Quad Flat Pack) (Continued)

- 1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age
- Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak.
- 3. Coplanarity Maximum 4 mils deviation



160-Lead Plastic Quad Flat Pack (QFP)

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PACKAGE INFORMATION

SOIC (Small Outline Integrated Circuit)

- 1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age
- Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak.
- 3. Coplanarity Maximum 4 mils deviation



SYMBOL	MILLIMETER		INCH	
	MIN	мах	MIN	MAX
A	2.40	2.65	0.094	0.104
A1	0.10	0.30	0.004	0.012
A2	2.24	2.44	0.088	0.096
В	0.36	0.46	0.014	0.018
С	0.23	0.30	0.009	0.012
D	11.40	11.75	0.449	0.463
Ε	7.40	7.60	0.291	0.299
(Ç	1.27 TYP		0.05	O TYP
Н	10.00	10.65	0.394	0.419
h	0.30	0.50	0.012	0.020
L	0.60	1.00	0.024	0.039
Q1	0.97	1.07	0.038	0.042

CONTROLLING DIMENSIONS : MM LEADS ARE COPLANAR WITHIN .004 INCH.

18-Lead Small Outline Integrated Circuit (SOIC)

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PACKAGE INFORMATION

SOIC (Small Outline Integrated Circuit) (Continued)

- 1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age
- Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak.
- 3. Coplanarity Maximum 4 mils deviation



SYMBOL	MILLI	METER) P	ЮН
	MIN	MAX	MIN	MAX
A	2.40	2.65	.094	.104
AT	0.10	0.30	.004	.012
A2	2.24	2.44	.088	.096
8	0.36	0.46	.014	.018
С	0.23	0.30	.009	.012
D	12.60	12.95	.496	.510
E	7.40	7.60	.291	.299
æ	1.27	1.27 TYP		TYP
н	10.00	10.65	.394	.419
h	0.30	0.40	.012	.016
L	0.60	1.00	.024	.039
Q1	0.97	1.07	.038	.042

CONTROLLING DIMENSIONS : MM LEADS ARE COPLANAR WITHIN .004 INCH.

20-Lead Small Outline Integrated Circuit (SOIC)

PACKAGE INFORMATION

SOIC (Small Outline Integrated Circuit) (Continued)

- 1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age
- Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak.

3. Coplanarity Maximum 4 mils deviation



28-Lead Plastic Small Outline Integrated Circuit (SOIC)

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PACKAGE INFORMATION

<u>SSOP</u> (Slim Small Outline Package)

- 1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age
- Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak.
- 3. Coplanarity Maximum 4 mils deviation



CONTROLLING DIMENSIONS : MM LEADS ARE COPLANAR WITHIN .004 INCH.

CYMPOL	MILLIMETER			INCH		
	MIN	NOM	MAX	MIN	NOM	MAX
A	1.73	1.85	1.98	0.068	0.073	0.078
A1	0.05	0.13	0.21	0.002	0.005	0.008
A2	1.68	1.73	1.83	0.066	0.068	0.072
8	0.25	0.30	0.38	0.010	0.012	0.015
С	0.13	0.15	0.22	0.005	0.006	0.009
D	7.07	7.20	7.33	0.278	0.283	0.289
E	5.20	5.30	5.38	0.205	0.209	0.212
e	0.65 TYP			0.0256 TYP)	
н	7.65	7.80	7.90	0.301	0.307	0.311
L	0.56	0.75	0.94	0.022	0.030	0.037
Q1	0.74	0.78	0.82	0.029	0.031	0.032

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20-Lead Slim Small Outline Package (SSOP)

I (PCB Chip Carrier)

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1. Solderability MIL-STD-883C Method 2003.5
Eight Hours Steam Age
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Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak.



20-Lead PCB Chip Carrier

PACKAGE INFORMATION

I (PCB Chip Carrier) (Continued)

1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age

Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak.





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PACKAGE INFORMATION

I (PCB Chip Carrier) (Continued)

1. Solderability MIL-STD-883C Method 2003.5 Eight Hours Steam Age

Mark Permanency
 3X soak into Alpha 2110 at 63-70°C.
 30 sec. duration each soak.
 Mech. brush after each soak.



44-Lead PCB Chip Carrier

<u>C</u> (Ceramic Sidebrazed)

1. Solderability	MIL-STD-883C Method 2003.5 Eight Hours Steam Age
2. Mark Permanency	3X soak into trichlorethane 1.1.1 1 min. duration each soak. Mech. brush after each soak
3. Hermeticity	5 X 10E-8 CC/SEC MIL-STD-883C Method 1014.8 Condition B

Note:



18-Lead Ceramic Sidebrazed Dual-In-Line Package

<u>C</u> (Ceramic Sidebrazed) (Continued)

1. Solderability	MIL-STD-883C Method 2003.5 Eight Hours Steam Age
2. Mark Permanency	3X soak into trichlorethane 1.1.1 1 min. duration each soak. Mech. brush after each soak
3. Hermeticity	5 X 10E-8 CC/SEC MIL-STD-883C Method 1014.8 Condition B

Note:

Package dimensions are given in inches. To convert to millimeters, multiply by 25.4.



28-Lead Ceramic Sidebrazed Dual-In-Line Package

<u>C</u> (Ceramic Sidebrazed) (Continued)

1.	Solderability	MIL-STD-883C Method 2003.5 Eight Hours Steam Age
2.	Mark Permanency	3X soak into trichlorethane 1.1.1 1 min. duration each soak. Mech. brush after each soak
3.	Hermeticity	5 X 10E-8 CC/SEC MIL-STD-883C Method 1014.8 Condition B

Note:

Package dimensions are given in inches. To convert to millimeters, multiply by 25.4.



40-Lead Ceramic Sidebrazed Dual-In-Line Package

<u>C</u> (Ceramic Sidebrazed) (Continued)

1. Solderability	MIL-STD-883C Method 2003.5 Eight Hours Steam Age
2. Mark Permanency	3X soak into trichlorethane 1.1.1 1 min. duration each soak. Mech. brush after each soak
3. Hermeticity	5 X 10E-8 CC/SEC MIL-STD-883C Method 1014.8 Condition B

Note:

Package dimensions are given in inches. To convert to millimeters, multiply by 25.4.



48-Lead Ceramic Sidebrazed Dual-In-Line Package

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PACKAGE INFORMATION

<u>C</u> (Ceramic Sidebrazed) (Continued)

1. Solderability	MIL-STD-883C Method 2003.5 Eight Hours Steam Age
2. Mark Permanency	3X soak into trichlorethane 1.1.1 1 min. duration each soak. Mech. brush after each soak
3. Hermeticity	5 X 10E-8 CC/SEC MIL-STD-883C Method 1014.8 Condition B

Note:

Package dimensions are given in inches. To convert to millimeters, multiply by 25.4.



64-Lead Ceramic Sidebrazed Dual-In-Line Package with 0.070" Lead Centers

[⊗]ZiL05

PACKAGE INFORMATION

LCC (Ceramic Leadless Chip Carrier)

1. Solderability	MIL-STD-883C Method 2003.5 Eight Hours Steam Age
2. Mark Permanency	3X soak into trichlorethane 1.1.1 1 min. duration each soak. Mech. brush after each soak
3. Hermeticity	5 X 10E-8 CC/SEC MIL-STD-883C Method 1014.8 Condition B

Note:





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PACKAGE INFORMATION

LCC (Ceramic Leadless Chip Carrier) (Continued)

1. Solderability	MIL-STD-883C Method 2003.5 Eight Hours Steam Age
2. Mark Permanency	3X soak into trichlorethane 1.1.1 1 min. duration each soak. Mech. brush after each soak
3. Hermeticity	5 X 10E-8 CC/SEC MIL-STD-883C Method 1014.8 Condition B

Note:





PACKAGE INFORMATION

LCC (Ceramic Leadless Chip Carrier) (Continued)

1. Solderability	MIL-STD-883C Method 2003.5 Eight Hours Steam Age
2. Mark Permanency	3X soak into trichlorethane 1.1.1 1 min. duration each soak. Mech. brush after each soak
3. Hermeticity	5 X 10E-8 CC/SEC MIL-STD-883C Method 1014.8 Condition B

Note:





<u>D</u> (Cerdip)

1. Solderability	MIL-STD-883C Method 2003.5 Eight Hours Steam Age
2. Mark Permanency	3X soak into trichlorethane 1.1.1 1 min. duration each soak. Mech. brush after each soak
3. Hermeticity	5 X 10E-8 CC/SEC MIL-STD-883C Method 1014.8 Condition B

Note:



28-Lead Cerdip Dual-In-Line Package

D (Cerdip) (Continued)

1. Solderability	MIL-STD-883C Method 2003.5 Eight Hours Steam Age
2. Mark Permanency	3X soak into trichlorethane 1.1.1 1 min. duration each soak. Mech. brush after each soak
3. Hermeticity	5 X 10E-8 CC/SEC MIL-STD-883C Method 1014.8 Condition B

Note:



40-Lead Cerdip Dual-In-Line Package

<u>K</u> (Cerdip Window)

1. Solderability	MIL-STD-883C Method 2003.5 Eight Hours Steam Age
2. Mark Permanency	3X soak into trichlorethane 1.1.1 1 min. duration each soak. Mech. brush after each soak
3. Hermeticity	5 X 10E-8 CC/SEC MIL-STD-883C Method 1014.8 Condition B

Note:



28-Lead Cerdip Window Lid Package

K (Cerdip Window) (Continued)

1. Solderability	MIL-STD-883C Method 2003.5 Eight Hours Steam Age
2. Mark Permanency	3X soak into trichlorethane 1.1.1 1 min. duration each soak. Mech. brush after each soak
3. Hermeticity	5 X 10E-8 CC/SEC MIL-STD-883C Method 1014.8 Condition B

Note:



40-Lead Cerdip Window Lid Package

<u>G</u> (Ceramic Pin Grid Array)

1. Solderability	MIL-STD-883C Method 2003.5 Eight Hours Steam Age
2. Mark Permanency	3X soak into trichlorethane 1.1.1 1 min. duration each soak. Mech. brush after each soak
3. Hermeticity	5 X 10E-8 CC/SEC MIL-STD-883C Method 1014.8 Condition B

Note:

Package dimensions are given in inches. To convert to millimeters, multiply by 25.4.



68-Lead Ceramic Pin Grid Array (PGA)

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PACKAGE INFORMATION

<u>G</u> (Ceramic Pin Grid Array) (Continued)

1. Solderability	MIL-STD-883C Method 2003.5 Eight Hours Steam Age
2. Mark Permanency	3X soak into trichlorethane 1.1.1 1 min. duration each soak. Mech. brush after each soak
3. Hermeticity	5 X 10E-8 CC/SEC MIL-STD-883C Method 1014.8 Condition

Note:

Package dimensions are given in inches. To convert to millimeters, multiply by 25.4.



В



<u>G</u> (Ceramic Pin Grid Array)

1. Solderability	MIL-STD-883C Method 2003.5 Eight Hours Steam Age
2. Mark Permanency	3X soak into trichlorethane 1.1.1 1 min. duration each soak. Mech. brush after each soak
3. Hermeticity	5 X 10E-8 CC/SEC MIL-STD-883C Method 1014.8 Condition B

Note:





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PACKAGE INFORMATION

<u>G</u> (Ceramic Pin Grid Array) (Continued)

1. Solderability	MIL-STD-883C Method 2003.5 Eight Hours Steam Age
2. Mark Permanency	3X soak into trichlorethane 1.1.1 1 min. duration each soak. Mech. brush after each soak
3. Hermeticity	5 X 10E-8 CC/SEC MIL-STD-883C Method 1014.8 Condition B

Note:

Package dimensions are given in inches. To convert to millimeters, multiply by 25.4.



OPTION - OI

124-Lead Ceramic Pin Grid Array (PGA)

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PACKAGE INFORMATION

<u>T</u> (Low Profile Protopak)

Note:





40/24-Lead Low Profile Protopak Package

PACKAGE INFORMATION

<u>T</u> (Low Profile Protopak)

Note:







48/28-Lead Low Profile Protopak

PACKAGE INFORMATION

<u>E</u> (Ceramic Window Lid)

1.	Solderability	MIL-STD-883C Method 2003.5 Eight Hours Steam Age
2.	Mark Permanency	3X Soak into trichlorethane 1.1.1 1 Min. duration each soak Mech. brush after each soak
3.	Hermeticity	5X10E - 8 CC/SEC MIL-STD-883C Method 1014.8 Condition B

- 4. Lid will allow ultraviolet light erasure of EPROM circuit.
- 5. Glass will transmit 60% min. of ultraviolet light at wave length of 2537A.

Note:



40-Lead Ceramic Window Lid Package

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