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FEATURES AND SPECIFICATIONS

Features and Benefits

- Sizes 1 to 25 circuits
- 6471 is end-to-end stackable (2 housings only)
- 2695 version with or without locking ramp and polarizing ribs

Reference Information

Product Specification: PS-10-07

Packaging: Bag

UL File No.: E29179

CSA File No.: LR19980

Mates With: Molex KK 2.54mm (.100") pitch headers and 0.04mm (.025") pins

Use With: 2695—2759, 6459 or 41572 terminals

6471—4809 terminals

Designed In: Inches

Electrical*

Voltage: 250V

Current: Phosphor Bronze—4.0A max.

Brass—2.5A max.

Contact Resistance: 20mΩ max.

Dielectric Withstanding Voltage: 1500V AC

Insulation Resistance: 50K MΩ min.

Mechanical*

Contact Insertion Force: 681g (1.5 lb) max.

Contact Retention to Housing: 3.63kg (8 lb) min.

Mating Force: 199g max.

Unmating Force: 57g min.

Normal Force: 200g min.

Physical

Housing: 2695—Red nylon, UL 94V-0

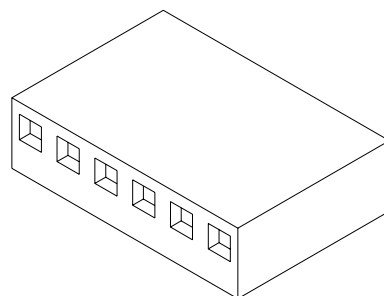
6471—White nylon, UL 94V-0

Operating Temperature: 0 to +75°C

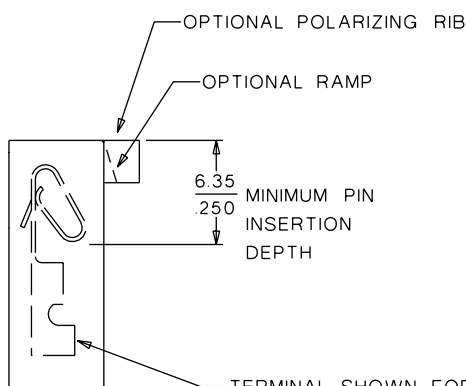
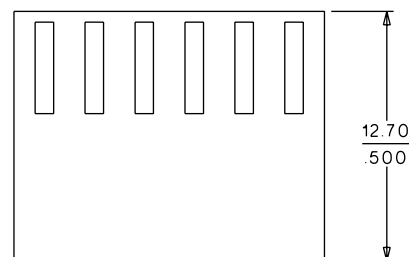
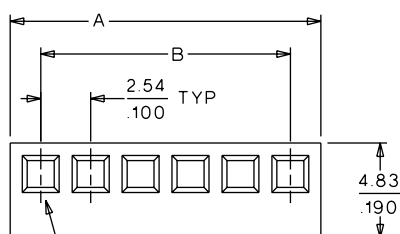


2.54mm (.100") Pitch KK® Crimp Terminal Housing

2695/6471



CATALOG DRAWING (FOR REFERENCE ONLY)



Note: When mating polarizing rib version with breakaway friction lock header or polarizing wall series, the end friction lock or polarizing wall of header must be removed.

	Order No.
Polarizing Key	15-04-9209
Polarizing Peg	15-04-9210

Note: 2695 shown

ORDERING INFORMATION AND DIMENSIONS

Circuits	Order No.				Dimension	
	2695		6471		A	B
	With Locking Ramp	With Locking Ramp and Polarizing Ribs	Without Locking Ramp or Ribs	With Locking Ramp and Polarizing Ribs†		
1				• 22-01-2011	3.10 (.122)	
2	• 22-01-2027	• 22-01-3027	• 22-01-2021	22-01-2025	5.60 (.220)	2.54 (.100)
3	• 22-01-2037	• 22-01-3037	• 22-01-2031	22-01-2035	8.10 (.320)	5.08 (.200)
4	• 22-01-2047	• 22-01-3047	• 22-01-2041	22-01-2045	10.70 (.420)	7.62 (.300)
5	• 22-01-2057	• 22-01-3057	• 22-01-2051	22-01-2055	13.20 (.520)	10.16 (.400)
6	• 22-01-2067	• 22-01-3067	• 22-01-2061	22-01-2065	15.80 (.620)	12.70 (.500)
7	• 22-01-2077	• 22-01-3077	• 22-01-2071	22-01-2075	18.30 (.720)	15.24 (.600)
8	• 22-01-2087	• 22-01-3087	• 22-01-2081	22-01-2085	20.90 (.820)	17.78 (.700)
9	• 22-01-2097	• 22-01-3097	• 22-01-2091	22-01-2095	23.40 (.920)	20.32 (.800)
10	• 22-01-2107	• 22-01-3107	• 22-01-2101	22-01-2105	25.90 (1.020)	22.86 (.900)
11	• 22-01-2117	• 22-01-3117	• 22-01-2111	22-01-2115	28.50 (1.120)	25.40 (1.000)
12	• 22-01-2127	• 22-01-3127	• 22-01-2121	22-01-2125	31.00 (1.220)	27.94 (1.100)

• US Standard Product, available through Molex franchised distributors

* When mated with Molex product only

† For circuits 19-28, contact Molex

Circuits	Order No.				Dimension	
	2695		6471		A	B
	With Locking Ramp	With Locking Ramp and Polarizing Ribs	Without Locking Ramp or Ribs	With Locking Ramp and Polarizing Ribs†		
13	• 22-01-2137	• 22-01-3137	• 22-01-2131	22-01-2135	33.50 (1.320)	30.48 (1.200)
14	• 22-01-2147	• 22-01-3147	• 22-01-2141	22-01-2145	36.10 (1.420)	33.02 (1.300)
15	• 22-01-2157	• 22-01-3157	• 22-01-2151	22-01-2155	38.60 (1.520)	35.56 (1.400)
16	• 22-01-2167	• 22-01-3167	• 22-01-2161	22-01-2165	41.20 (1.620)	38.10 (1.500)
17	• 22-01-2177	• 22-01-3177	• 22-01-2171	22-01-2175	43.70 (1.720)	40.64 (1.600)
18	• 22-01-2187	• 22-01-3187	• 22-01-2181	22-01-2185	46.20 (1.820)	43.18 (1.700)
19	• 22-01-2197	• 22-01-3197	• 22-01-2191		48.80 (1.920)	45.72 (1.800)
20	• 22-01-2207	• 22-01-3207	• 22-01-2201		51.30 (2.020)	48.26 (1.900)
21	• 22-01-2217	• 22-01-3217	• 22-01-2211		53.90 (2.120)	50.80 (2.000)
22	• 22-01-2227	• 22-01-3227	• 22-01-2221		56.40 (2.220)	53.34 (2.100)
23	• 22-01-2237	• 22-01-3237	• 22-01-2231		58.90 (2.320)	55.88 (2.200)
24	• 22-01-2247	• 22-01-3247	• 22-01-2241		61.50 (2.420)	58.42 (2.300)
25	• 22-01-2257	• 22-01-3257	• 22-01-2251		64.00 (2.520)	60.96 (2.400)



PRODUCT SPECIFICATION

1.0 SCOPE

This Product Specification covers the following

A. 2.50 mm centerline (pitch) 0.64 mm square pin headers

B. 2.54 mm centerline (pitch) 0.64 mm square pin headers

when mated with either printed circuit board (PCB) connectors or connectors terminated with 22 to 28 AWG wire using crimp technology.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME AND SERIES NUMBERS

Crimp Terminals: 4809, 2759, 41572, 6459, 40445, 8088

Crimp Housings: 2695, 5051, 6471

PCB Connectors: 7534, 4455

Headers: 3022, 3202, 3094, 3494, 6410, 7930, 7395, 90578

Wire to board connector : 7690

Other products conforming to this specification are noted on the individual drawings.

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

Terminal Material: Brass or Phos. Bronze (for Max performance use phos bronze material.)

Housing: Nylon or Polyester

Pins: Brass or Phos. Bronze

For more information on dimensions, materials, and plating see the individual drawings.

2.3 SAFETY AGENCY APPROVALS

UL File Number E29179

CSALR19980

3.0 APPLICABLE DOCUMENTS AND SPECIFICATIONS

None

4.0 RATINGS

4.1 VOLTAGE

250 Volts

4.2 CURRENT AND APPLICABLE WIRES (Current is dependent on connector size, contact material, plating, ambient temperature, printed circuit board characteristics and related factors. Actual current rating is application dependent and should be evaluated for each application.)

AWG	Amps (Max)	Outside Insulation Diameter
22	4.00	See Drawings
24	3.75	See Drawings
26	3.50	See Drawings
28	3.00	See Drawings

4.3 TEMPERATURE (ambient + 30° temp rise)

Operating: 0°C to +75°C

Non-operating: - 40°C to +105°C

REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A	EC No: E2003 -0971 DATE: 2003 / 03 / 18	PRODUCT SPECIFICATION 2.50mm & 2.54mm CENTER KK CONNECTORS	1 of 5
DOCUMENT NUMBER:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
PS-99020-0088	B MAGUIRE	L Kiernan	M Wilhite



PRODUCT SPECIFICATION

5.0 PERFORMANCE

5.1 ELECTRICAL REQUIREMENTS

DESCRIPTION	TEST CONDITION	REQUIREMENT
Contact Resistance (Low Level)	Mate connectors: apply a maximum voltage of 20 mV and a current of 100 mA.	10 milliohms MAXIMUM [initial]
Contact Resistance of Wire Termination (Low Level)	Terminate the applicable wire to the terminal and measure wire using a voltage of 20 mV and a current of 100 mA.	2 milliohms MAXIMUM [initial]
Insulation Resistance	Unmate & unmount connectors: apply a voltage of 500 VDC between adjacent terminals and between terminals to ground.	1000 Megaohms MINIMUM
Dielectric Withstanding Voltage	Unmate connectors: apply a voltage of {two times the rated voltage plus 1000 volts} VAC for 1 minute between adjacent terminals and between terminals to ground.	No breakdown
Capacitance	Measure between adjacent terminals at 1 MHz.	2 picofarads MAXIMUM
Temperature Rise (via Current Cycling)	Mate connectors: measure the temperature rise at the rated current after: 1) 96 hours (steady state) 2) 240 hours (45 minutes ON and 15 minutes OFF per hour) 3) 96 hours (steady state)	Temperature rise: +30°C MAXIMUM

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PRODUCT SPECIFICATION

5.2 MECHANICAL REQUIREMENTS

DESCRIPTION	TEST CONDITION	REQUIREMENT
Connector Mate and Unmate Forces	Per circuit when mated to a 0.635mm Sq. pin. Mate and unmate connector (male to female) at a rate of 25 ± 6 mm per minute.	1.95 N MAXIMUM insertion force & 0.56 N MINIMUM withdrawal force
Terminal Retention Force (in Housing)	Axial pullout force on the terminal in the housing at a rate of 25 ± 6 mm per minute. (Forces will change with platings and materials.)	17.8 N MINIMUM withdrawal force
Terminal Insertion Force (into Housing)	Apply an axial insertion force on the terminal at a rate of 25 ± 6 mm. (Forces will change with platings and materials.)	6.67 N MAXIMUM insertion force
Durability	Mate connectors up to 25 cycles at a maximum rate of 10 cycles per minute prior to Environmental Tests.	10 milliohms MAXIMUM (change from initial)
Vibration (Random)	Mate connectors and vibrate per EIA 364-28, test condition VII.	10 milliohms MAXIMUM (change from initial) & Discontinuity < 1 microsecond
Shock (Mechanical)	Mate connectors and shock at 50 g's with $\frac{1}{2}$ sine wave (11 milliseconds) shocks in the $\pm X, \pm Y, \pm Z$ axes (18 shocks total).	10 milliohms MAXIMUM (change from initial) & Discontinuity < 1 microsecond
Wire Pullout Force (Axial)	Apply an axial pullout force on the wire at a rate of 25 ± 6 mm. (For maximum performance use Molex application tooling with stranded tinned copper wire)	22 awg = 44 N 24 awg = 35 N 26 awg = 26 N 28 awg = 17 N 30 awg = 13 N
Normal Force	Apply a perpendicular force.	2.94 N (300 grams) average

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PRODUCT SPECIFICATION

5.3 ENVIRONMENTAL REQUIREMENTS

DESCRIPTION	TEST CONDITION	REQUIREMENT										
Shock (Thermal)	Mate connectors; expose to 5 cycles of: <table><tr><th>Temperature °C</th><th>Duration (Minutes)</th></tr><tr><td>-40 +0/-3</td><td>30</td></tr><tr><td>+25 ±10</td><td>5 MAXIMUM</td></tr><tr><td>+105 +3/-0</td><td>30</td></tr><tr><td>+25 ±10</td><td>5 MAXIMUM</td></tr></table>	Temperature °C	Duration (Minutes)	-40 +0/-3	30	+25 ±10	5 MAXIMUM	+105 +3/-0	30	+25 ±10	5 MAXIMUM	10 milliohms MAXIMUM (change from initial) & Visual: No Damage
Temperature °C	Duration (Minutes)											
-40 +0/-3	30											
+25 ±10	5 MAXIMUM											
+105 +3/-0	30											
+25 ±10	5 MAXIMUM											
Thermal Aging	Mate connectors; expose to: 96 hours at 105 ± 2°C	10 milliohms MAXIMUM (change from initial]) & Visual: No Damage										
Humidity (Steady State)	Mate connectors: expose to a temperature of 40 ± 2°C with a relative humidity of 90-95% for 96 hours. Note: Remove surface moisture and air dry for 1 hour prior to measurements.	10 milliohms MAXIMUM (change from initial) & Dielectric Withstanding Voltage: No Breakdown at 500 VAC & Insulation Resistance: 1000 Megaohms MINIMUM & Visual: No Damage										
Humidity (Cyclic)	Mate connectors: cycle per EIA-364-31: 24 cycles at temperature 25 ± 3°C at 80 ± 5% relative humidity and 65 ± 3°C at 50 ± 5% relative humidity; dwell time of 1.0 hour; ramp time of 0.5 hours. {Note: Remove surface moisture and air dry for 1 hour prior to measurements.}	10 milliohms MAXIMUM (change from initial) & Dielectric Withstanding Voltage: No Breakdown at 500 VAC & Insulation Resistance: 1000 Megaohms MINIMUM & Visual: No Damage										
Solderability	Per SMES-152	Solder coverage: 95% MINIMUM (per SMES-152)										

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PRODUCT SPECIFICATION

5.3 ENVIRONMENTAL REQUIREMENTS

DESCRIPTION	TEST CONDITION	REQUIREMENT
Solder Resistance	Dip connector terminal tails in solder: Solder Duration: 5 ± 0.5 seconds; Solder Temperature: $230 \pm 5^{\circ}\text{C}$	Visual: No Damage to insulator material
Salt Spray	Mate connectors: Duration: 48 hours exposure; Atmosphere: salt spray from a 5% solution; Temperature: $35 \pm 1/-2^{\circ}\text{C}$	10 milliohms MAXIMUM (change from initial) & Visual: No Damage
Cold Resistance	Mate connectors: Duration: 96 hours; Temperature: $-40 \pm 3^{\circ}\text{C}$	10 milliohms MAXIMUM (change from initial) & Visual: No Damage

6.0 PACKAGING

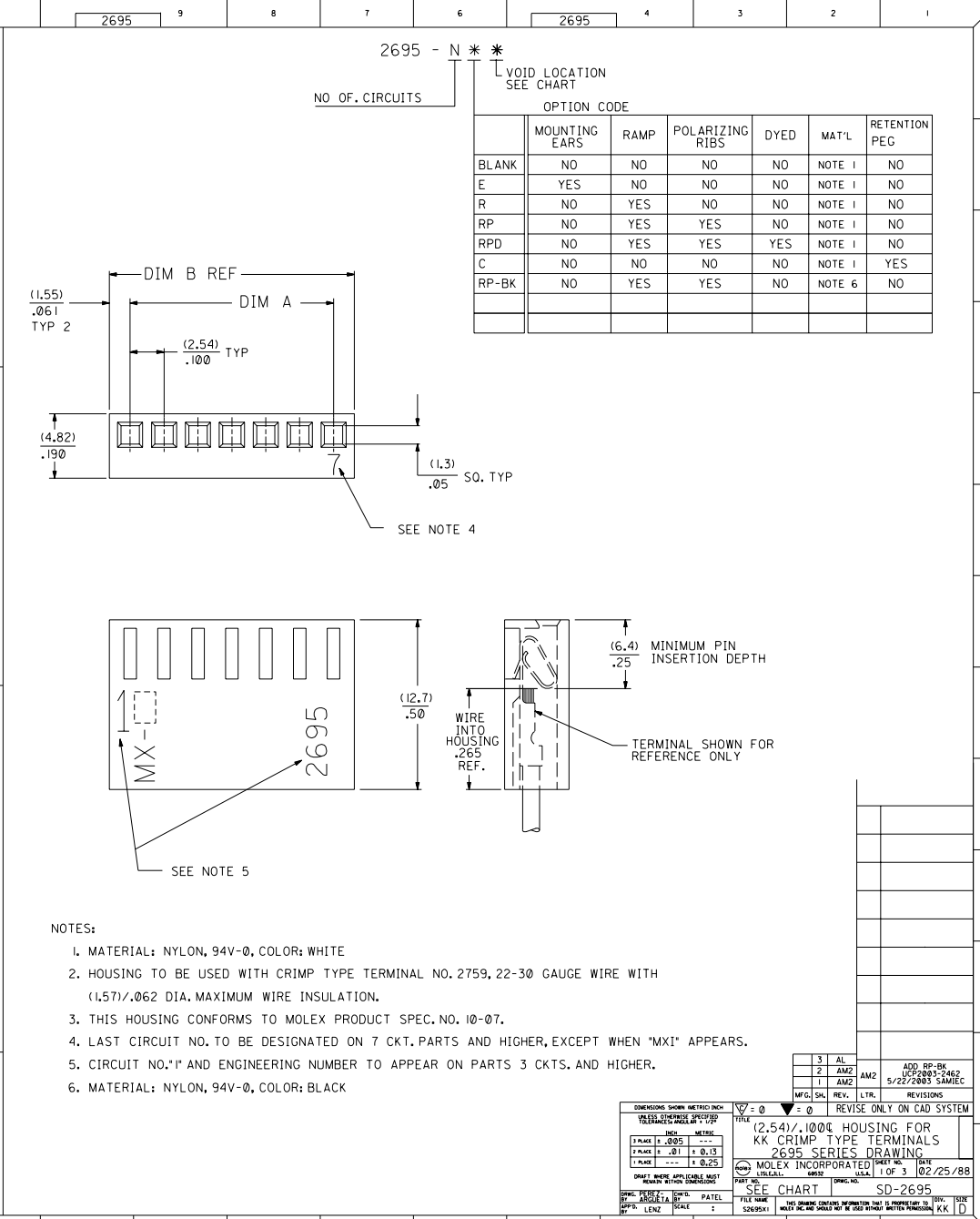
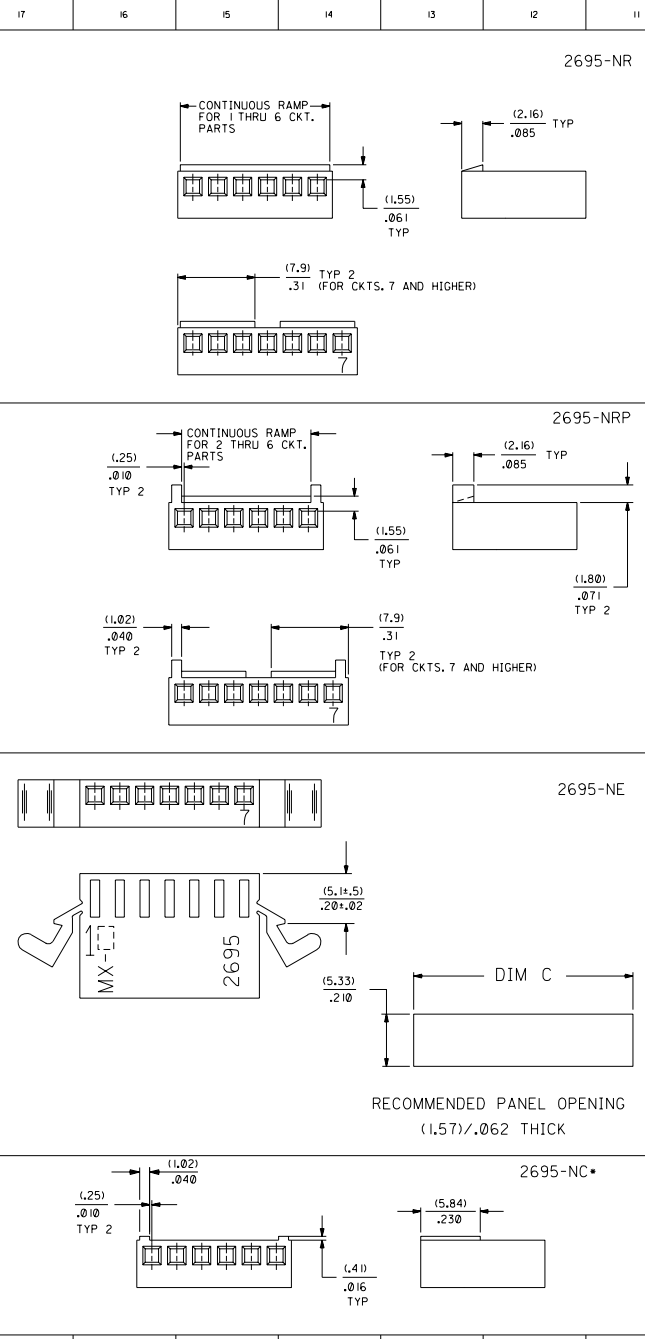
Parts shall be packaged to protect against damage during handling, transit and storage.

7.0 GAGES AND FIXTURES

8.0 OTHER

REVISION:	ECR/ECN INFORMATION:	TITLE:	SHEET No.
A	EC No: E2003 -0971 DATE: 2003 / 03 / 18	PRODUCT SPECIFICATION 2.50mm & 2.54mm CENTER KK CONNECTORS	5 of 5
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	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
M	NO. OF CKT.'S	DIM. A	DIM. B	DIM. C																
	1	N/A	(3.10) .122	(7.16) .282																
	2	(2.54±.05) .100±.002	(5.64) .222	(9.70) .382																
L	3	(5.08±.05) .200±.002	(8.18) .322	(12.24) .482																
	4	(7.62±.05) .300±.002	(10.72) .422	(14.78) .582																
	5	(10.16±.05) .400±.002	(13.26) .522	(17.32) .682																
K	6	(12.70±.08) .500±.003	(15.80) .622	(19.86) .782																
	7	(15.24±.08) .600±.003	(18.54) .722	(22.44) .882																
	8	(17.78±.08) .700±.003	(20.88) .822	(24.94) .982																
J	9	(20.32±.10) .800±.004	(23.42) .922	(27.48) 1.082																
	10	(22.86±.10) .900±.004	(25.96) 1.022	(30.02) 1.182																
	11	(25.4±.10) 1.000±.004	(28.50) 1.122	(32.56) 1.282																
I	12	(27.94±.13) 1.100±.005	(31.04) 1.222	(35.10) 1.382																
	13	(30.48±.13) 1.200±.005	(33.58) 1.322	(37.64) 1.482																
	14	(33.02±.13) 1.300±.005	(36.12) 1.422	(40.18) 1.582																
H	15	(35.56±.13) 1.400±.005	(38.66) 1.522	(42.72) 1.682																
	16	(38.10±.15) 1.500±.006	(41.20) 1.622	(45.26) 1.782																
	17	(40.64±.15) 1.600±.006	(43.74) 1.722	(47.80) 1.882																
G	18	(43.18±.15) 1.700±.006	(46.28) 1.822	(50.34) 1.982																
	19	(45.72±.15) 1.800±.006	(48.82) 1.922	(52.88) 2.082																
	20	(48.26±.15) 1.900±.006	(51.36) 2.022	(55.42) 2.182																
F	21	(50.80±.18) 2.000±.007	(53.90) 2.122	(57.96) 2.282																
	22	(53.34±.18) 2.100±.007	(56.44) 2.222	(60.50) 2.382																
	23	(55.88±.18) 2.200±.007	(58.98) 2.322	(63.04) 2.482																
	24	(58.42±.18) 2.300±.007	(61.52) 2.422	(65.58) 2.582																
E	25	(60.96±.20) 2.400±.008	(64.06) 2.522	(68.12) 2.682																
	26	(63.50±.20) 2.500±.008	(66.60) 2.622	(70.66) 2.782																
	27	(66.04±.20) 2.600±.008	(69.14) 2.722	(73.20) 2.882																
D	28	(68.58±.20) 2.700±.008	(71.68) 2.822	(75.74) 2.982																
	29	(71.12±.23) 2.800±.009	(74.22) 2.922	(78.28) 3.082																
	30	(73.66±.23) 2.900±.009	(76.76) 3.022	(80.82) 3.182																
	31	(76.20±.23) 3.000±.009	(79.30) 3.122	(83.36) 3.282																
C	32	(78.74±.23) 3.100±.009	(81.84) 3.222	(85.90) 3.382																
	33	(81.28±.25) 3.200±.010	(84.38) 3.322	(88.44) 3.482																
	34	(83.82±.25) 3.300±.010	(86.92) 3.422	(90.98) 3.582																
	35	(86.36±.25) 3.400±.010	(89.46) 3.522	(93.52) 3.682																
B	36	(88.90±.25) 3.500±.010	(92.00) 3.622	(96.06) 3.782																
	37	(91.44±.28) 3.600±.011	(94.54) 3.722	(98.60) 3.882																
	38	(93.98±.28) 3.700±.011	(97.08) 3.822	(101.14) 3.982																
A	39	(96.52±.28) 3.800±.011	(99.62) 3.922	(103.68) 4.082																
	40	(99.06±.28) 3.900±.011	(102.16) 4.022	(106.22) 4.182																



	20	19	18	17	16	15	14	13	12	11	2695	9	8	7	6	2695	4	3	2	1	
	2695-N			2695-NE			2695-NR			2695-NRP			2695-NRPD			2695-NRP-BK					
M	PART NO.	ENG NO.	VOID	PART NO.	ENG NO.	VOID	PART NO.	ENG NO.	VOID	PART NO.	ENG NO.	VOID	PART NO.	ENG NO.	VOID	PART NO.	ENG NO.	VOID		M	
	22-01-2011	2695-1			2695-1E			2695-1R		N/A	2695-1RP		N/A	2695-1RPD			50-29-1557	2695-2RP-BK			
	22-01-2021	2695-2		22-01-2022	2695-2E			2695-2R		22-01-3027	2695-2RP			2695-2RPD			50-29-1558	2695-3RP-BK			
	22-01-2031	2695-3			2695-3E			2695-3R		22-01-3037	2695-3RP			2695-3RPD			50-29-1559	2695-4RP-BK			
	22-01-2041	2695-4			2695-4E			2695-4R		22-01-3047	2695-4RP			2695-4RPD			50-29-1560	2695-5RP-BK			
L	22-01-2051	2695-5			2695-5E			2695-5R		22-01-3057	2695-5RP		22-32-2051	2695-5RPD			50-29-1561	2695-6RP-BK			
	22-01-2061	2695-6			2695-6E			2695-6R		22-01-3067	2695-6RP			2695-6RPD			50-29-1562	2695-7RP-BK			
	22-01-2071	2695-7		22-01-2072	2695-7E			2695-7R		22-01-3077	2695-7RP			2695-7RPD			50-29-1563	2695-8RP-BK			
	22-01-2081	2695-8			2695-8E			2695-8R		22-01-3087	2695-8RP			2695-8RPD			50-29-1564	2695-9RP-BK			
	22-01-2091	2695-9			2695-9E			2695-9R		22-01-3097	2695-9RP		22-32-2101	2695-9RPD			50-29-1565	2695-10RP-BK			
	22-01-2101	2695-10			2695-10E			2695-10R		22-01-3107	2695-10RP			2695-10RPD			50-29-1566	2695-11RP-BK			
	22-01-2111	2695-11			2695-11E			2695-11R		22-01-3117	2695-11RP			2695-11RPD			50-29-1567	2695-12RP-BK			
K	22-01-2121	2695-12			2695-12E			2695-12R		22-01-3127	2695-12RP			2695-12RPD			50-29-1568	2695-13RP-BK			
	22-01-2131	2695-13			2695-13E			2695-13R		22-01-3137	2695-13RP			2695-13RPD			50-29-1569	2695-14RP-BK			
	22-01-2141	2695-14			2695-14E			2695-14R		22-01-3147	2695-14RP			2695-14RPD			50-29-1570	2695-15RP-BK			
	22-01-2151	2695-15			2695-15E			2695-15R		22-01-3157	2695-15RP			2695-15RPD			50-29-1571	2695-16RP-BK			
	22-01-2161	2695-16			2695-16E			2695-16R		22-01-3167	2695-16RP			2695-16RPD			50-29-1572	2695-17RP-BK			
	22-01-2171	2695-17			2695-17E			2695-17R		22-01-3177	2695-17RP			2695-17RPD			50-29-1573	2695-18RP-BK			
J	22-01-2181	2695-18			2695-18E			2695-18R		22-01-3187	2695-18RP			2695-18RPD			50-29-1574	2695-19RP-BK			
	22-01-2191	2695-19			2695-19E			2695-19R		22-01-3197	2695-19RP			2695-19RPD			50-29-1575	2695-20RP-BK			
	22-01-2201	2695-20			2695-20E			2695-20R		22-01-3207	2695-20RP			2695-20RPD			50-29-1576	2695-21RP-BK			
	22-01-2211	2695-21			2695-21E			2695-21R		22-01-3217	2695-21RP			2695-21RPD			50-29-1577	2695-22RP-BK			
	22-01-2221	2695-22			2695-22E			2695-22R		22-01-3227	2695-22RP			2695-22RPD			50-29-1578	2695-23RP-BK			
	22-01-2231	2695-23			2695-23E			2695-23R		22-01-3237	2695-23RP			2695-23RPD			50-29-1579	2695-24RP-BK			
I	22-01-2241	2695-24			2695-24E			2695-24R		22-01-3247	2695-24RP			2695-24RPD			50-29-1580	2695-25RP-BK			
	22-01-2251	2695-25			2695-25E			2695-25R		22-01-3257	2695-25RP			2695-25RPD			50-29-1581	2695-26RP-BK			
	22-01-2261	2695-26			2695-26E			2695-26R		22-01-3267	2695-26RP			2695-26RPD			50-29-1582	2695-27RP-BK			
	22-01-2271	2695-27			2695-27E			2695-27R		22-01-3277	2695-27RP			2695-27RPD			50-29-1583	2695-28RP-BK			
	22-01-2281	2695-28			2695-28E			2695-28R		22-01-3287	2695-28RP			2695-28RPD							
	22-01-2291	2695-29			2695-29E			2695-29R			2695-29RP			2695-29RPD							
		2695-30			2695-30E			2695-30R			2695-30RP			2695-30RPD							
H		2695-31			2695-31E			2695-31R			2695-31RP			2695-31RPD							
		2695-32			2695-32E			2695-32R			2695-32RP			2695-32RPD							
	22-01-2331	2695-33			2695-33E		22-01-2337	2695-33R			2695-33RP			2695-33RPD							
		2695-34			2695-34E			2695-34R			2695-34RP			2695-34RPD							
		2695-35			2695-35E			2695-35R			2695-35RP			2695-35RPD							
		2695-36			2695-36E			2695-36R			2695-36RP			2695-36RPD							
G		2695-37			2695-37E			2695-37R			2695-37RP			2695-37RPD							
		2695-38			2695-38E			2695-38R			2695-38RP			2695-38RPD							
		2695-39			2695-39E			2695-39R			2695-39RP			2695-39RPD							
		2695-40			2695-40E			2695-40R			2695-40RP			2695-40RPD							
							22-01-2062	2695-06R-5	5		22-01-5102	2695-10RP-2	2								
											22-01-5044	2695-4RP-3	3								
F											22-01-5103	2695-10RP-5	5								
											22-01-5111	2695-11RP-5	5								
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REVISIONS

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DIMENSIONS SHOWN METRIC INCH

UNLESS OTHERWISE SPECIFIED

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METRIC

1 PLACE 0

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