

AUDIO ADAPTERS

64 1/4" to 1/4", RCA; RCA to RCA; & Miscellaneous Adapter Series



Ordering Information

Part Number	Description
1/4" to 1/4"	
361A	Mono female to female
362A	Stereo female to female
363	Mono male to male
340	2 Mono jacks parallel to mono plug
352A	Stereo jack to mono plug
1/4" to RCA	
330P	2 RCA jacks to mono plug, 4" cable
336A	Female 1/4" to male RCA
345A	Female RCA to male 1/4"
RCA to RCA	
330F1	2 Female RCA parallel to 1 male RCA
330F2	1 Male and 1 female parallel to 1 male
349A	Female to female
Miscellaneous	
332A	Old MC1M type to 1/4" female
365	Tini-Jax (.141") to RCA male
370A	Female RCA to Tini-Plug (.141")
374	1/4" female to Tini-Plug (.141")
376	Tini-Jax (.141") to Micro-Plug (.097")
377	Micro-Jax (.097") to Tini-Plug (.141")
44	Female 2500 Series to 1/4" plug

Switch

JACKS & PLUGS

Jack Series 65

Littel Phone, Hi-D, Right Angle PC Mount 1/4", 1/4" Extension Jack Series

Switchcraft offers an extensive variety of 1/4" commercial jacks. Littel phone jacks offer open frame designs, Hi-D jacks offer an enclosed, 94V-0 rated thermoplastic housing, our RA jacks are designed for right angle PC board layouts, and our Extension jacks allow the end user to extend cable lengths. All offer a wide range of options to fit a multitude of needs. For mating plugs, look to page 83 for all of the various options.

Specifications

Mechanical

Life: 10,000 insertion/withdrawal cycles, minimum

Electrical

Contact Resistance: .030 ohms maximum (initial), .050 ohms maximum (after humidity, durability exposure) Per Mil-Std-202E

Insulation Resistance: 10,000 MW minimum (initial), 1,000 MW minimum (after humidity)

Dielectric Withstanding Voltage: 500V, 60 Hz (rms) AC

Contact Rating: 1A, 25 VDC

Environmental

Thermal Range: -55°C to +85°C (non-operating); -20°C to +65°C (operating)

Thermal Shock: Per Mil-Std-202, method 107

Humidity: Per Mil-Std-202, method 106

Salt Spray: Per Mil-Std 202, method 101

Materials

Mounting Bushing: Copper alloy, nickel-plated
(RN & RA Series: Thermoplastic)

Insulation: Rigid plastic

Springs: Special copper alloy.

Integral contacts are standard in the isolated switching circuits

Sleeve Terminal: Copper alloy

Hardware: Supplied with one Number P10001 copper alloy nickel-plated hex nut, and one Number S1022 steel nickel-plated washer



See next page for ordering information

JACKS & PLUGS

66 Jack Series

Ordering Information

Part No.	Conductors	Typical Description	Mating Plug	Notes
Littel Phone Jacks				
11	2	single open	280	
12A	2	single closed	280	
12B	3	double open	297	
14B	3	double closed	297	
Hi-D Jacks				
111	2	single open	280	
112B	3	double open	297	
113BPC1M	3	tip closed, ring open (common to sleeve)	297 or 482NC	PC terms, accepts Littel and Mil-type plugs
114B	3	double closed	297	
114BPC	3	double closed	297	PC terms
114BPCS	3	double closed	297	Springlock PC terms
114BPC1M	3	double closed	297 or 482NC	PC terms, accepts Littel and Mil-type plugs, metric thread
Z15J	2	single open	187B	15A rated
Right Angle PC Mount 1/4" Jacks				
RA49B11	2	single open	280	
RN112APC	2	single closed	280	
RA49C14B	3	double closed	297	
1/4" Extension Jacks				
80	2	single open	280	Screw terms, black handle
88	2	single open	280	Solder terms, black handle
120	2	single open	280	Screw terms, shielded handle
121	2	single open	280	Solder terms, shielded handle
131	3	double open	297	Solder terms, shielded handle
133	3	double open	298	Solder terms, shielded handle, locking
830	3	double open	297	Screw terms, black handle
128	2	single open	280	Solder terms, shielded handle
1238	3	double open	297	Solder terms, shielded handle

See Pages 72–74 for Mechanical Drawings

Switch

JACKS & PLUGS

Jack Series 67

Thick Panel/Guitar, Locking 1/4", Tini, Tini-Extension, Micro, 3.5mm

The TP or Thick Panel jacks are typically used in applications such as loud-speaker enclosures and solid-body guitars. Only premium materials are used in the manufacture of these jacks. Locking 1/4" jacks allow the end user to lock the mating plug, providing positive detent to the connection. Also offered is a wide range of 1/8" jacks and true 3.5mm jacks.

Specifications - Thick Panel Series & Locking Jacks

Electrical

Insulation Resistance: 2 x 10⁶ MW
at 500 VDC per Mil-Std-202,
method 302 (initial)
Dielectric Withstanding Voltage:
1,000 VAC (ms)
Life: 10,000 cycles minimum

Environmental

Thermal Range: -55°C to +85°C
(non operating); -20°C to +65°C
(operating)
Thermal Shock: Per Mil-Std-202,
method 107
Humidity: Per Mil-Std-202, method
106
Salt Spray: Per Mil-Std-202, method
101

Materials

Shell - Locking Jacks: Die-cast
zinc, with satin nickel-plating;
Black chrome over nickel-plating
on special order
Insert and Latch: Thermoplastic,
UL94V-0
Latch Release: Nickel-plated
die-cast zinc
Contact Springs: Tin-plated
copper alloy
Mounting Bushing - Thick Panel
Jacks: Nickel-plated copper alloy
with knurled flange
Insulating Spacer: Rigid plastic

(continued on next page)



JACKS & PLUGS

68 Jack Series

(continued from previous page)

Insulator/Spring Mount:

Thermo-plastic

Springs: Copper alloy

Terminals: Tip: Copper alloy; Ring: (Number 152B only) Copper alloy; Sleeve: Steel, tin-plated

Hardware - Thick Panel Jacks: Supplied with one, Number P10531 nickel-plated copper alloy hex nut; and one, Number P1476 nickel-plated copper alloy flat washer

Specifications - 35RAPC Series

Electrical

Contact Resistance: 20 milliohms maximum

Insulation Resistance: 100 milliohms minimum at 250 VDC

Dielectric Withstanding Voltage: 250 VAC

Life: 5,000 cycles, minimum

Insertion Force: 0.88 pounds - 3.5 pounds

Withdrawal Force: 0.88 pounds - 2.64 pounds

Materials

Coil Spring: Steel Wire

Bushing: Nickel-plated copper alloy

Terminal: Silver-plated copper alloy

Tip Spring: Silver-plated copper alloy

Shunt Terminal: Plated copper alloy

Cover: Thermoplastic, transparent UL 94V-2

Body: Thermoplastic, UL 94V-1 black color

Specifications - 35PM Series & Tini Jack Series

Electrical

Contact Resistance: .075 ohms maximum

Insulation Resistance: 5,000 MW minimum

Dielectric Withstanding Voltage: 250 VAC maximum

Life: 5,000 insertion/withdrawal cycles, minimum

Contact Rating: .25A, 48 VDC

Materials

Mounting Bushing: Nickel-plated copper alloy

Insulating Spacers: Rigid plastic

Springs: Copper alloy

Sleeve Terminal: Tin-plated copper alloy

Hardware: Supplied with one,

Number P11501 nickel-plated brass locknut; and one, Number S17901 nickel-plated steel flat washer

Ordering Information

Part No.	Conductors	Description	Typical Mating Plug	Notes
Thick Panel/Guitar Jacks (1/4")				
151	2	single open	280	Nickel finish
152	3	double open	297	Brass finish
152B	3	double open	297	Nickel finish
153	2	single open	280	Gold-plated springs, electro-polish brass finish, 9/16-12 UNC wood thread
154	3	double open	297	Gold-plated, no cable clamp
155	3	double open	297	Black satin chrome finish, no cable clamp
Locking 1/4" Jacks				
E111L	2	single open	280	
E112BL	3	double open	297	
Tini-Jacks (.141")				
41	2	single open	750	
42A	2	single closed	750	
142A	2	single closed	750	
PC142A	2	single closed	750	PC terms
Tini-Extension Jacks (.141")				
125	2	single open	750	
3.5mm Jacks				
35RAPC2AV	2	single closed		Threaded bushing, PC terms
35RAPC2BH3	3	double open	35HDNN	Threaded bushing, PC terms
35RAPC3BH3	3	tip closed, ring open	35HDNN	Threaded bushing, PC terms
35RAPC4BH3	3	double closed	35HDNN	Threaded bushing, PC terms
35RAPC7J	3	top jack dual open	35HDNN	Dual vertical jack bottom jack dual closed
35RAPC7JS	3	top jack dual open	35HDNN	Dual vertical jack, shielded bottom jack dual closed
35PM1	2	single open	750	
35PM2A	2	single closed	750	

See Pages 75-79 for Mechanical Drawings

Switch

JACKS & PLUGS

69

Jack Series

Phono, Phono Extension, TT or Bantam, MT 1/4" Jack Series

Phono jacks, more commonly called RCA jacks offer low cost, two conductor connections. TT or bantam jacks are the same type used in our audio patchbays. Typically used in high end studio applications. MT or 1/4" jacks are just a bigger version of the TT jacks. Same high quality, just in a larger package.

Specifications - Phono Jacks

Materials

Frame and Shell: Steel, plated
Center Terminal: Plated copper alloy (3517PC); Plated copper alloy (3514PC)
Insulator: Thermoplastic (3514PC) Ceramic and glass filled thermoplastic (3517PC)

For 3515PC Only:

Contact and Saddle: Spring type copper alloy, copper alloy pre-tinned
Shell: Steel or copper alloy, plated
Insulator Bushing: Ceramic
Insulator Spacer: Glass-filled thermoplastic

Specifications - TT and MT Jacks

Mechanical

Life: Commercial – 30,000 insertion/withdrawal cycles, minimum; Military – 30,000 insertion/withdrawal cycles, minimum
Mechanical Shock: Military – Per Mil-Std-202, method 213, Test Condition H (75g)
Vibration: Military – Per Mil-Std-202, method 213, (10-55 Hz)

Electrical

Contact Resistance: Commercial – .030 ohms maximum (initial), .050 ohms maximum (after humidity, durability exposure); Military – .010 ohms maximum (initial), .020 ohms maximum (after life), .10 ohms maximum (after salt spray)
Insulation Resistance: Commercial – 10,000 M Ω minimum (initial), 1,000 M Ω minimum (after humidity); Military – 10,000 M Ω minimum (initial), 1,000 M Ω minimum (after humidity, durability exposure)
Dielectric Withstanding Voltage: 500V, 60 Hz (rms) AC

(continued on next page)



JACKS & PLUGS

70 Jack Series

(continued from previous page)

Environmental

Thermal Range: Commercial –
55°C to +85°C (non-operating), -
20°C to +65°C (operating);
Military –
-55°C to +85°C (non operating), -
40°C to +65°C
(operating)
Thermal Shocks: Commercial –
Per Mil-Std-202, method 107;
Military – Per Mil-Std-202,
method 107
Humidity: Commercial –

Per Mil-Std-202, method 106;
Military — 0% to 95% operating
and non-operating
Salt Spray: Commercial –
Per Mil-Std-202, method 101;
Military – Per Mil-Std-202,
method 101 (48 hours)
Moisture Resistance: Military –
Per Mil-Std-202, method 106
(240 hours)

Materials

Frame: Steel, nickel plated
Springs: Copper alloy
Contacts: Welded, crossbar, gold
plated

Ordering Information

Part No.	Conductors	Typical Description	Mating Plug	Notes
Phono Jacks				
3501FP	2	single open	3502A	Front mounting
3501FR	2	single open	3502A	Rear mounting
3514PC	2	single open	3502A	Right angle, PC mount
3517PC	2	single open	3502A	Right angle, PC mount
BPJR**	2	single open	3502A	Rear mounting, colored insulators
BPJR**AU	2	single open	3502A	Same as above, with gold-plating
BPJF**	2	single open	3502A	Front mounting, colored insulators
BPJF**AU	2	single open	3502A	Same as above, with gold-plating
BPJJ**	2	single open	3502A	Feed through mount
BPJJ**AU	2	single open	3502A	Same as above, with gold-plating
Phone Extension Jacks				
3503	2	single open	3502A	
TT or Bantam Jacks				
TT34B	3	double closed	TT253NC	
TT34BNY	3	double closed	TT253NC	Nickel-plated frame, fanned terminals
WTT34B	3	double closed	TT253NC	Wire-wrap terminals
MT 1/4" Jacks				
MT334B	3	double closed	482NC	
WMT334B	3	double closed	482NC	Wire-wrap terminals
YMT334BN	3	double closed	482NC	Nickel-plated frame, fanned terminals

** To designate color of insulator, use: 01– Black, 02 – Red, 03 – White, 04 – Yellow, 05 - Blue, 06 - Green

See Pages 80-82 for Mechanical Drawings

Switch

JACKS & PLUGS

Power/Jacks Plugs Series 700, S700, 800 Cord & Panel Style Series

71

Low power AC to DC power jacks and plugs are used throughout the audio industry, to power a wide variety of products. Switchcraft offers both cord plug and panel mount versions, including locking and non-locking versions.

Specifications - Plugs

Electrical:

Current (Carry): 5 amps

Materials

Plug Sleeve and Pin: Nickel-plated copper alloy
Lock Ring: Nickel-plated copper alloy
Lock Ring Thread Size: 5/16" - 32 UNEF 2B
Finger Insulator: Molded plastic
Insulating Washers: Rigid plastic
Sleeve Terminal: Copper alloy, electro-tinned
Handle: Molded plastic
Handle Thread Size: 5/16" - 24 UNF 2B

Specifications - Jacks

Mechanical

Life: 10,000 insertion/withdrawal cycles minimum
Insertion/Withdrawal Forces:
3 pound insertion (maximum),
4 ounce minimum withdrawal

Electrical

Contact Resistance: .01 ohms maximum (initial), .02 ohms maximum (after humidity, durability exposure), .1 ohms maximum (after salt spray)
Insulation Resistance: 10,000 MW minimum (initial), 1,000 MW minimum (after humidity, durability exposure)
Dielectric Withstanding Voltage: 500 VAC maximum
Contact Rating: 5A, 12 VDC resistive



Materials

Housing: Molded plastic
Mounting Bushing and Hex Nut: Plated copper alloy
Pin, Spring and Terminals: Plated copper alloy
Insulators: Rigid plastic
Hardware: Supplied with one

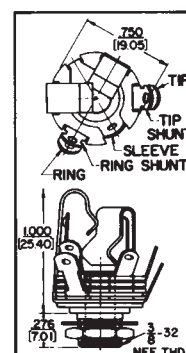
Number P2439 nickel-plated brass hex nut, and one Number P2441 nickel-plated steel flat washer

Ordering Information

Part Number	Style	Notes
712A	Panel	0.100" center pin
722A	Panel	0.080" center pin
732A	Panel	0.050" center pin
760	Cord	0.100" center hole, black handle
765	Cord	0.100" center hole, red handle
S760	Cord	0.080" center hole, black handle
S765	Cord	0.080" center hole, red handle
860	Cord	0.050" center hole, black handle
865	Cord	0.050" center hole, red handle
760K	Cord	0.100" center hole, black handle, locking
S760K	Cord	0.080" center hole, black handle, locking

See Next Page for Mechanical Drawings

11, 12A, 12B, 14B



14B Series

SOLDER LUG

5/16-32 HEX NUT

PIN DIA. SEE TABLE

$\phi 0.43$

0.54 [13,7]

0.28 [7,1]

0.22 [5,5]

0.055 x 0.108 SLOT [1.4 x 2.8]

PHENOLIC WASHER PART #P2442

SHOULDER WASHER PART #S4283

$\phi 0.375$ [9,53] MTS HOLE

MOUNTING PANEL

OPTIONAL INSULATED MOUNTING

TYPICAL CIRCUIT DIAGRAM

CENTER PIN

SLEEVE SHUNT

SLEEVE

Technical drawing of the 375-32 UNEF-2A connector, showing three views: front, side, and detail of the contact area.

Front View Dimensions:

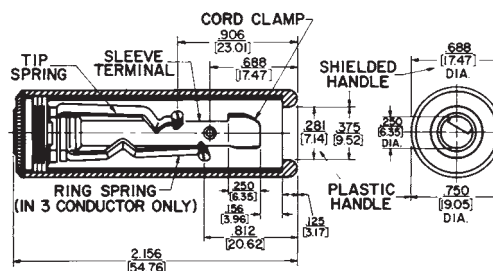
- Overall width: .74 SQ. [18.8]
- Thread specification: 375-32 UNEF-2A [9.5-32] THREAD
- Internal dimensions: .2535^{+0.0000}_{-0.0020} [6.44^{+0.0}_{-0.051}]

Side View Dimensions:

- Overall length: .326 [8.3]
- Internal length: .128 [3.09]
- Internal diameter: .05 [1.3]
- Overall length to contact: .437 [11.1]
- Internal diameter to contact: .28 [7.1]
- Internal diameter to contact: .136 [3.5] DIA. HOLE (2)
- Internal diameter to contact: .02 [0.5] x .625 O.D. WASHER
- Internal diameter to contact: .091 [2.3] x .500 HEX. NUT

Detail View Dimensions:

- Tip springs
- Tip terminal
- Ground terminal



JACKS & PLUGS

Jack Series Dimension Drawings Littel Phone, Hi-D, 1/4" Extension Jack Series

73

Solder Lug Terminals for Hi-D Jax - 111, 112B, 114B



Spring Lock PC Terminals for Hi-D Jax - 114BPCS



PC Terminals for Hi-D Jax - 113BPC1M, 114BPC1M



DIMENSIONS ARE FOR REFERENCE ONLY
Inch
(mm)

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74

Jack Series Dimension Drawings Right Angle PC Mount 1/4" Jack Series

RA49B11

RA49C14B



RN112APC



Switch

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Jack Series Dimension Drawings

75

Thick Panel/Guitar, Locking 1/4", Tini, Tini Extension Jack Series

151, 153



E111L, E112BL



41, 42A

125



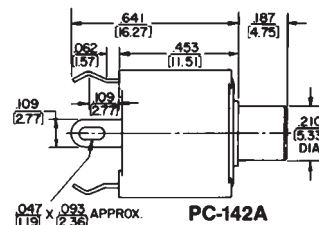
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Inch
(mm)

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142, PC142A



RECOMMENDED PC BOARD LAYOUTS

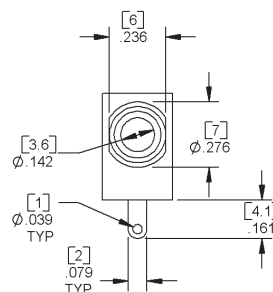
Technical drawing of a 3D printed part, showing two views with dimensions in inches (in) and millimeters (mm).

Top View Dimensions:

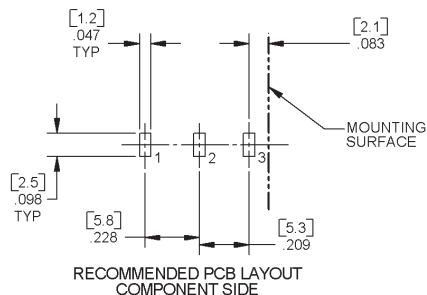
- Overall width: $[.4, 4]$ in / $[173]$ mm
- Distance from left edge to centerline: $[.7]$ in / $[276]$ mm
- Feature 1: $[1]$
- Feature 2: $[2]$
- Feature 3: $[3]$
- Thread specification: M6 X P0.5 THREAD

Bottom View Dimensions:

- Overall width: $[.5, 5]$ in / $[209]$ mm
- Distance from left edge to centerline: $[.7, 5]$ in / $[295]$ mm
- Feature 1: $[1]$
- Feature 2: $[2]$
- Feature 3: $[3]$
- Feature 4: $[4]$
- Feature 5: $[5]$
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- Feature 200: $[200]$
- Feature 201: $[201]$



PART NUMBER	SCHEMATIC
35RAPC2AV	



JACKS & PLUGS

Jack Series Dimension Drawings

77

3.5mm Jack Series

35RAPC2BH3, 35RAPC3BH3, 35RAPC4BH3



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78 Jack Series Dimension Drawings 3.5mm Jack Series

35RAPC7J, 35RAPC7JS



Switch

JACKS & PLUGS

Jack Series Dimension Drawings 3.5mm Jack Series

79

35PM1



35PM2A



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Inch
(mm)

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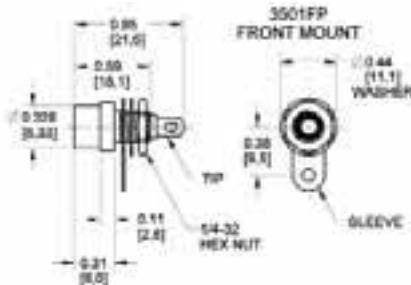
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JACKS & PLUGS

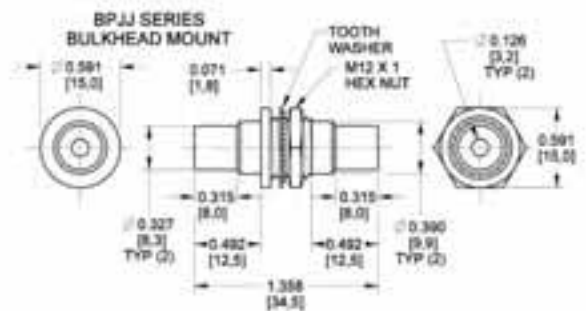
80

Jack Series Dimension Drawings Phono and Phono Extension Jack Series

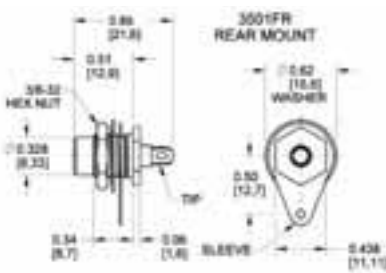
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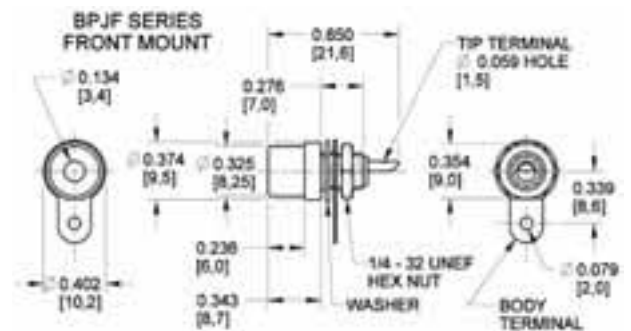
BPJJ Series



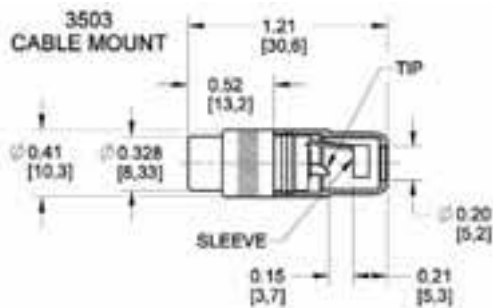
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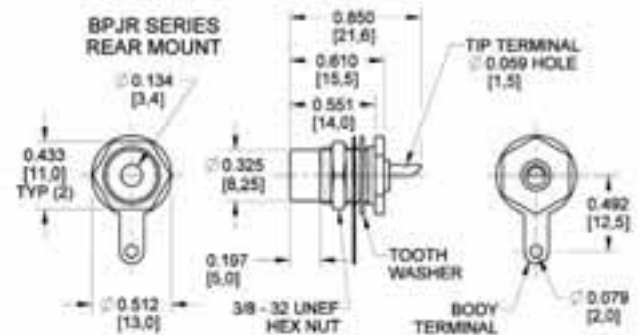
BPJF Series



3503 Extension



BPJR Series



3514PC, 3517PC



Switch

JACKS & PLUGS

Jack Series Dimension Drawings TT or Bantam Jack Series

81

TT34B, TT34BN, WTT34B



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Inch
(mm)

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JACKS & PLUGS

82

Jack Series Dimension Drawings

MT 1/4" Jack Series

MT334B, WMT334B, YMT334BN



Switch

JACKS & PLUGS

Plug Series 83

Littel 1/4", Right Angle 1/4", Silent, Super Heavy Duty Plug Series

Switchcraft Littel Plugs all feature one-piece tip rods for added strength and durability. All are offered in a wide variety of configurations, including straight, right angle, shielded, screw or solder terminals. The Heavy Duty Speaker plugs have larger cable clamps and are rated at 15A. The Silent plugs have a unique circuit-closing device which stops hums, pops, and squeals when the plug is removed or inserted from the jack. Miti plugs feature heavy duty brass construction, rugged cable clamps, and spring flex reliefs. All plugs meet EIA standards for tip configuration, which ensures you they mate properly with the jack.

Specifications

Electrical

Contact Resistance (typical Depends on Mating Jack):
 < 0.020 ohms
 Dielectric Withstand Voltage: 500 VAC (minimum)
 Insulation Resistance @ 500 VDC: 2,000 megohms (minimum)
 Insulation Resistance (after Mil-Std-202 Salt Spray): 1,000 megohms (minimum)
 Working Voltage: 250 VAC, 140 VDC
 Insert/Withdrawal Force:
 Depends on Mating Jack
 Soldering Requirement:
 ANSI/J-Std-001
 Temperature Range: -40°C to +85°C
 U.L. Component Recognition File No: E118169
 Life: Depends on Mating Jack

Materials

Tip: Nickel-plated copper alloy
 Sleeve: Nickel-plated copper alloy
 Handle: Nickel-plated copper alloy
 Tip Terminal: Copper alloy, electrotin-plated
 Cable Clamp: Copper alloy, electro-tinplated

See Next Page for Ordering Information



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JACKS & PLUGS

84 Plug Series

Ordering Information

Part No.	Typical Conductors	Terminals	Mating Jack	Handle	Notes
1/4" Littel Plug Series					
240	2	Screw	11	Black	
245	2	Screw	11	Red	
250	2	Solder	11	Black	
260	2	Screw	11	Black	
270	2	Screw	11	Black	
280	2	Solder	11	Shielded	
281	2	Solder	11	Shielded	Unassembled
580	2	Solder	11	Shielded	Diecast handle
285	2	Solder	11	Shielded	Unassembled
285L	2	Solder	11	Shielded	Larger cable clamp
267	3	Solder	12B	Black	
290	3	Screw	12B	Shielded	
297	3	Solder	12B	Shielded	
299	3	Solder	12B	Shielded	Diecast handle
Heavy Duty Speaker Plugs					
184	2	Solder	11 or Z15J	Shielded	Accepts Cable OD up to .375"
188	2	Solder	11 or Z15J	Shielded	Accepts Cable OD up to .450"
187	2	Solder	11 or Z15J	Shielded	Accepts Cable OD up to .330"
187B	2	Solder	11 or Z15J	Shielded	Black Handle, accepts Cable OD up to .330"
Right Angle 1/4" Plugs					
226	2	Solder	11	Shielded	
228	2	Solder	11	Shielded	Flat handle
236	3	Solder	12B	Shielded	
238	3	Solder	12B		Flat handle
Silent Plug					
172	2	Screw	11	Shielded	
181	2	Solder	11	Shielded	
Miti Plugs					
174S	2	Solder	11 or Z15J	Shielded	Brass finish, spring flex relief

See Pages 88-89 for Mechanical Drawings

Switch

JACKS & PLUGS

Plug Series 85

Tini, Micro, 3.5mm Stereo, Right Angle 3.5mm Stereo, Phono, Right Angle Phono Plugs Series

Switchcraft offers a wide variety of Tini, Micro, 3.5mm, and RCA or Phono plugs. Tini plugs are 2 conductor plugs with plug finger diameters of .141" or 3.57mm. Micro plugs are 2 conductor plugs with plug finger diameters of .097" or 2.47mm. Our 35HD Series are true 3.5mm plugs, available in both straight and right angle versions; and available only in 3 conductor. The RCA or Phono plugs come with either hollow pins or solid pins. The 3502 offers hollow pins and standard size handle, the 3502L offers the same pin, but with a larger handle, accommodating cables up to .290". The 3502A and 3502RA Series offer solid pins and the larger cable clamps and handles. The 3558 Series offers a low cost alternative, with hollow pins and plastic handles.

Specifications

Mechanical

Life rating: 5,000 insertion/
withdrawals
Insertion/Withdrawal Force: 1 lb
(depending on mating jack)

Electrical

Insulation Resistance:
> 100 megohms
Dielectric Withstanding Voltage:
250 VAC

Environmental

Thermal Range: -55°C to +85°C
(non operating); -20°C to 65°C
(operating)
Thermal Shock: Mil-Std 202,
method 107
Humidity: Mil-Std 202,
method 106
Salt Spray: Mil-Std 202,
method 101

(continued on next page)



JACKS & PLUGS

86 Plug Series

Materials

Tip, Rod and Body (also integral coupling collar on lock micro-plug):
Nickel-plated copper alloy
Insulation: Molded thermoplastic
Sleeve Termination and Cable
Clamp: Tinned copper alloy

Handle: Nickel-plated copper alloy, or anodized aluminum, or thermoplastic. See factory for details.

Ordering Information

Part No.	Conductors	Terminals	Typical Mating Jack	Handle	Notes
Tini-Plug (.141")					
740	2	Screw	41	Black	
750	2	Solder	41	Black	
755	2	Solder	41	Red	
780	2	Solder	41	Shielded	
Micro-Plugs (.097")					
850	2	Solder	TR2A	Black	
855	2	Solder	TR2A	Red	
851	2	Solder	TR2A	Black	Locking version
880	2	Solder	TR2A	Shielded	
881	2	Solder	TR2A	Shielded	Locking version
3.5mm Stereo Plugs					
35HDNN	3	Solder		Shielded	
35HDBAU	3	Solder		Black Shielded	Gold-plated finger
35HDNAU	3	Solder		Shielded	Gold-plated finger
3.5mm Right Angle Stereo Plugs					
35HDRANN	3	Solder		Shielded	
35HDRABAU	3	Solder		Black Shielded	Gold-plated finger
35HDRAAU	3	Solder		Shielded	Gold-plated finger
Phono Plugs					
3502	2	Solder	3501FP	Shielded	Hollow Pin
3502A	2	Solder	3501FP	Shielded	Large cable clamp, solid pin
3502AAU	2	Solder	3501FP	Shielded	Gold-plated finger
3502ABAU	2	Solder	3501FP	Black shielded	Gold-plated finger
3502L	2	Solder	3501FP	Shielded	Hollow pin, large cable clamp
35581	2	Solder	3501FP	Red	Plastic handle
35582	3	Solder	3501FP	Black	Plastic handle
35585	3	Solder	3501FP	White	Plastic handle
Right Angle Phono Plugs					
3502RA	2	Solder	3501FP	Shielded	
3502RABAU	2	Solder	3501FP	Black Shielded	Gold-plated finger
3502RAAU	2	Solder	3501FP	Shielded	Gold-plated finger

See Pages 90-92 for Mechanical Drawings

Switches

JACKS & PLUGS

Plug Series **87**

TT or Bantam, Mil-Style 1/4" Plugs Series

Switchcraft leads the industry when developing innovative TT and MT Style plugs. Our "N" version plugs offer nickel-plated plug fingers to reduce tarnishing and corrosion. Our "NC" version plugs not only offer nickel-plated plug fingers, but also large, easy to use solder cups and terminals, plus easy to use cable clamps that really secure your cable to the plugs.

Specifications

Materials

Tip Rod, Body and Screws:
Copper alloy, natural finish
Terminals (NC Version): Tinned
copper alloy
Insulation: Thermoplastic, per
Mil-P-22985, Type II, Class 1
Handles: Thermoplastic, Type 6,
per Mil-M-20693, Type II
Shielded (NC Version): Machined
from copper alloy, nickel-plated



See Page 93 for
Mechanical Drawings

Ordering Information

Part No.	Conductors	Terminals	Handle	Notes
TT or Bantam Plugs				
TT253	3	Screw	Black	
TT253N	3	Screw	Black	Nickel-plated finger
TT253NC	3	Solder	Black	Nickel-plated finger
TT254	3	Screw	Red	
TT254N	3	Screw	Red	Nickel-plated finger
TT254NC	3	Solder	Red	Nickel-plated finger
Mil-Style 1/4 Plugs				
480	3	Screw	Black	0.206" OD
482	3	Screw	Red	
482N	3	Screw	Red	Nickel-plated finger
482NC	3	Solder	Red Shielded	Nickel-plated finger
482NCP	3	Solder	Red	Nickel-plated finger
483	3	Screw	Black	
483N	3	Screw	Black	Nickel-plated finger
483NC	3	Screw	Black Shielded	Nickel-plated finger
483NCP	3	Solder	Black	Nickel-plated finger
484	3	Screw	Red	0.206" OD
485NC	3	Solder	Shielded	Nickel-plated finger

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JACKS & PLUGS

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Plug Series Dimension Drawings Littel Plug 1/4" Series

260



No. 260 typical — shown with screw-type terminals and plastic handle.

280 Typical



No. 280 typical — shown with solder lug terminals, cord clamp and shielded handle.

188



187BL



No. 187BL (Typical)

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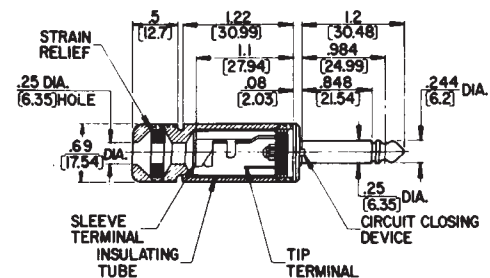
236 Right Angle 1/4" Plugs



172



181 Silent Plug



Exploded view diagram of a cable clamp assembly. The diagram shows the following components and dimensions:

- TIP TERMINAL**: The central terminal component.
- CABLE CLAMP (SHOWN CLOSED)**: The main clamping component.
- 2.250 [57.15]**: Dimension for the length of the cable clamp body.
- 1.812 [46.02]**: Dimension for the length of the cable clamp body.
- 1.200 [30.48]**: Dimension for the length of the cable clamp body.
- .500 [12.70] DIA. HANDLE**: Dimension for the diameter of the handle.
- .250 [6.35] DIA. SLEEVE**: Dimension for the diameter of the sleeve.
- .280 MAX. [7.11] DIA.**: Dimension for the maximum diameter of the flex relief spring.
- FLEX RELIEF SPRING**: The spring component.

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JACKS & PLUGS

90

Plug Series Drawings Tini, Micro Plug Series

740, 750 Tini-Plugs



740 Screw Terminals Series



750 Clamp-Lug Terminals

850, 851 Micro Plugs



850 (typical) Series



851 (typical) Series

Switch

JACKS & PLUGS

Plug Series Drawings 35HD 3.5mm Stereo Plug Series

91

35HDNN, 35HDBAU, 35HDNAU



35HDRANN, 35HDRABAU, 35HDRAAU



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JACKS & PLUGS

92

Plug Series Drawings

Phono and Phone Right Angle Plug Series

3502, 3502A, 35581 Phono Plug



3502 Series



35581 Series



3502A Series

3502RA Plug



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JACKS & PLUGS

Plug Series Drawings 93 TT or Bantam, Mil-Style 1/4" Plug Series

TT253, TT253NC Plug

NO. 0-80 TERMINAL
SCREWS



TT253 Series



TT253NC Series

480, 482, 482NC, 484 Mil-Style 1/4" Plug



480 Series



482NC Series



482 Series



484 Series

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Inch
(mm)

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SWITCHES

94 Switch Series Guitar and Knobs, and Broadcast Switch Series

The 12000 Series switches are premium grade switches used primarily in guitars as pick-up switches. The largest names in the industry rely on our switches for quality and durability. Our 84000 Series and PL Series switches are used in broadcast studios, theater lighting, anywhere large illuminated switches are needed.

Specifications - 12000 Series

Electrical

Contact Ratings: Fine silver contacts rated at 3A, 300W maximum
AC non-inductive load standard.
Other contacts available
Leakage Resistance: 1,000 MW or greater
Dielectric Strength: 250 VDC

Materials

Frame: Copper alloy, plated (3,000, 13,000); Steel, plated (12,000)
Bushing and Shaft: Copper alloy, plated
Springs: Copper alloy
Knob: Black molded thermoplastic
Mounting Hardware: Knurled copper alloy locknut T10711, supplied. P10531 hex locknut, special order
Insulation: Rigid plastic spacers with plastic tubing through stack. Rigid plastic and/or thermoplastic lifters. Thermoplastic cam on actuator end

Specifications - 8400 Series

Electrical

Temperature Range: -22°F to 158°F (-30°C to +70°C)
Dielectric Strength: 1 kV DC
Leakage Resistance: 1,000 MW or greater

Materials

Mounting/Retaining Clips and Covers: Steel, plated
Contact Ratings: Gold crossbar rated at 1A, 200W Maximum
AC non-inductive loads
(continued on next page)



Note: Knobs must be ordered separately.



Switch

(continued from previous page)

Springs: Copper alloy, plated
Lamp Terminals: Copper alloy, plated
Lamp Socket: Zinc, plated
Terminals: Copper alloy, plated,
straight solder lugs
Housing, Escutcheon, Knob,
Actuator and Switching Stacks
Insulation: Molded plastic

Specifications - PL Series

PUSH-LITE Switches Series and
PL Indicators

Contacts

Welded crossbar Gold Alloy,
rated at 2 amps., 200 watts
max., AC non-inductive load.

Electrical

6,000 Minimum Life (Gold
Alloy Contacts) per UL 1054.

Materials

Push-Lite Switch Assemblies:
Housing, Lifters, Switch Modules,
Barriers and Pushbuttons:
Molded Plastics
Contacts Springs: Phosphor
Bronze, Silver Plated
Lamp Terminals: Brass, Silver plated
Lamp Socket, Light Divider and
Yoke Assembly: Nickel Silver
Mounting Bracket and Retaining
Clips: Steel with iridescent
iridite over Cadmium Plating

Series PL Pushbuttons:

Housing, Color Filter Inserts and
Display Screens: High impact
thermoplastic

PL Indicators:

Housing: Molded glass filled
Plastics
Mounting Bracket: Steel, irides-
cent over cadmium Plating.
Lamp Retainer and Terminals:
Nickel Silver.
Display Screen (Pushbutton):
Molded Plastics.

Ordering Information

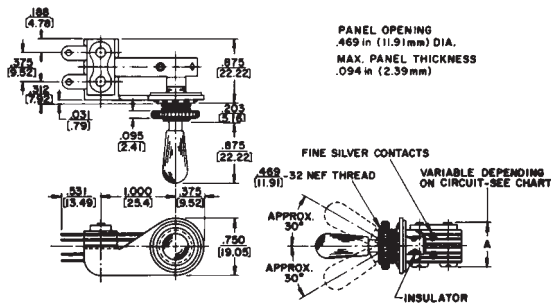
Part Number	Circuitry	Description
Guitar Switches		
12010	SPST(NC)/SPST(NC)	Straight, nickel finish, riveted silver contacts
12011	SPST(NC)/SPST(NC)	Straight, bright brass finish, riveted silver contacts
12012	SPDT(non-shorting)/SPST(NC)	Right angle, nickel finish, welded silver contacts
12013	SPST(NC)/SPST(NC)	Right angle, nickel finish, welded silver contacts
12014	SPST(NC)/SPST(NC)	Right angle, black finish, welded silver contacts
12015	DPDT(NC)/DPDT(NC)	Right angle, nickel finish, welded silver contacts
12016	SPST(NC)/SPST(NC)	Right angle, bright brass finish, riveted silver contacts
12017	SPST(NC)/SPST(NC)	Right angle, nickel finish, welded gold contacts
Knobs		
T12742		Black
T12745		White
T127410		Ivory
P2912		Amber
Broadcast Switches		
84206L	DPDT	2 Position, locking
84306L	SPDT(non-shorting) both sides	3 Position, locking
84312L	DPDT both sides	3 Position, locking
84324L	DPDT both sides	3 Position, locking
K131		Filter kit, 3 of ea. (amb, blu, grn, red, wht, and yel)
PL106205	DPDT	Momentary, single lamp
PL206205	DPDT	Momentary, twin lamp
PL106705	DPDT	Push-lock/Push-release, single lamp
PL206705	DPDT	Push-lock/Push-release, twin lamp

See Next Page for Mechanical Drawings

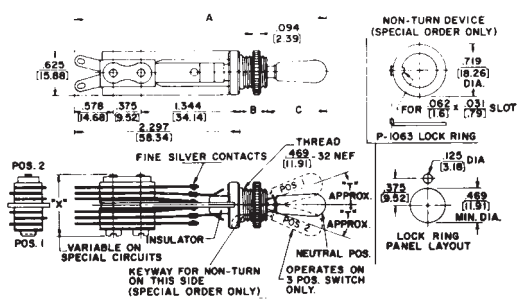
SWITCHES

96 Switch Series Drawings Guitar and Knobs, and Broadcast Switch Series

12000 Series RA Lev-R® Switches

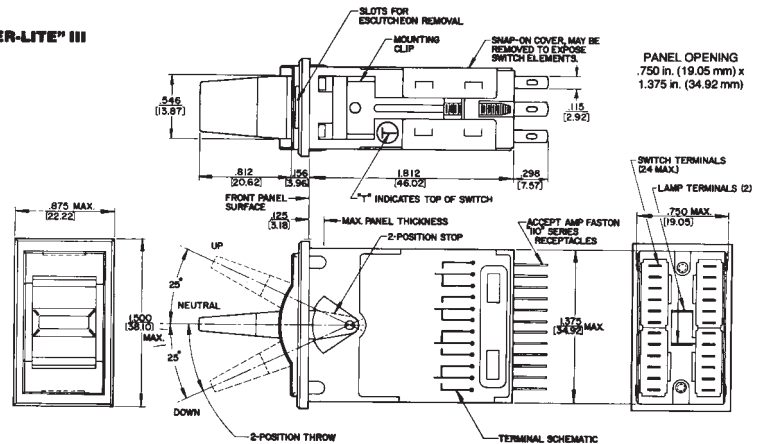


12000 Series Straight Lev-R® Switches

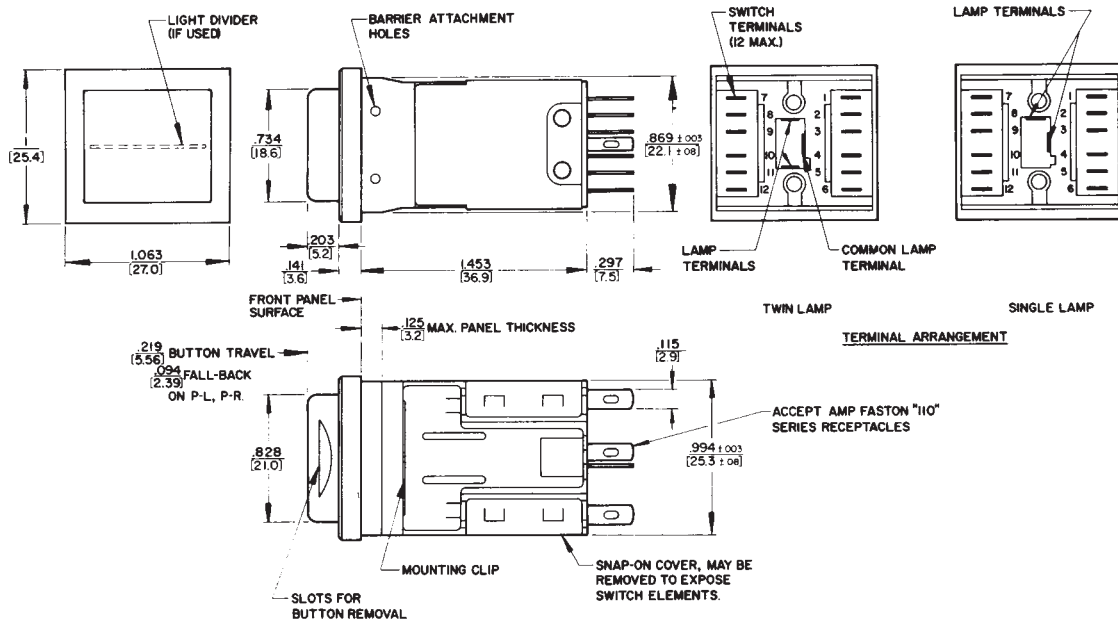


84000 Series Lever-Lite® Switches

"LEVER-LITE" III



PL Series Push-Lite® Switches



Switch

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BPJF**AU	70	HPCPK112F1	30	MTP48K3NS	14	RA49C14B	66
BPJJ**.....	70	HPCPK1B.....	30	MTP48K3PBNO	18	RN112APC	66
BPJJ**AU	70	HPCPK324F	30	MTP48K3SNO	14	RS422H48N081	12
BPJR**.....	70	HPCPK324F1	30	MTP52K3BPNO	18	RS422H4N161	12
BPJR**AU	70	HPCPK3B.....	30	MTPFA48K1NO	8	RS422H4N162	12
C*F.....	47	HPCPR410PC	50	MTPFA48K1NS	8	RS422H4N242	12
C*FB.....	47	HPCPR41F	50	MTPH48K1NO	5	RS422V4N081	12
C*M.....	47	HPCPR41F1	50	MTPH48K1NS	5	RS422V4N161	12
C*MB	47	HPCPR420PC	50	MTPH48K3NO	5	RS422V4N162	12
D*F.....	47	HPCPR42F	50	MTPH48K3NS	5	RS422V4N242	12
D*FB	47	HPCPR42F1	50	MTPH48K3SNO	5	RS422V4N322	12
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D*FS.....	47	K131	95	MVJ*75T.....	39	S3FM.....	63
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Switch

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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