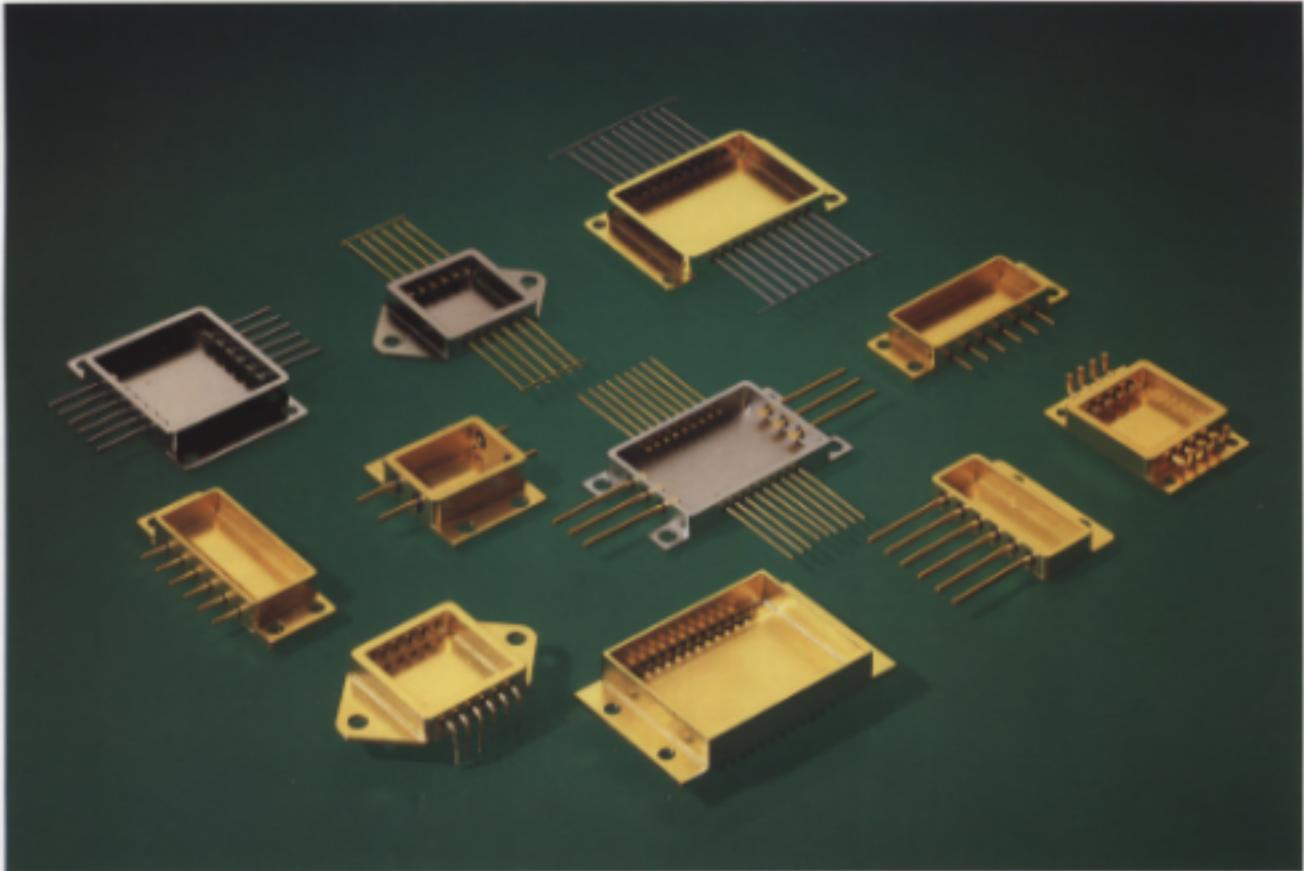


Power Packages



The largest selection of Open Tooling... plus custom capabilities for any size.

Sinclair offers Open Tooling.
In addition, Sinclair has the capability to produce Custom Power Devices in an unlimited range of frame sizes.

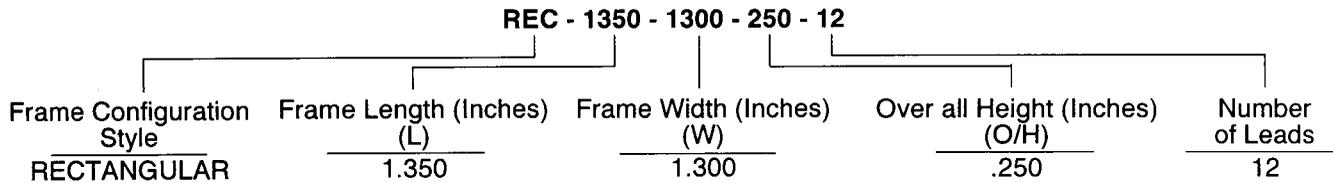
Sinclair

POWER PACKAGES

SPECIFICATIONS

How to use the Sinclair Part Numbering System

(Part numbers refer to frame size only)



Square configurations are available. **SQ** is the prefix.

CONTACT SINCLAIR FOR SPECIAL REQUIREMENTS

POWER PACKAGE CONSTRUCTION MATERIALS

Base Material	Thermal Conductivity (W/M deg K)	TCE (ppm/deg C)	Density (lbs/cu in.)	Frame Material	TCE (ppm/deg C)	Insulator Material	Lead Material	Braze Material	Braze Temp (C)
Copper(1)	390	17.7	0.3230	Steel	11.7	Glass	52 alloy CC	BT(721)	780
GlidCop(1)	365	16.9	0.3210	Steel	11.7	Ceramic	GlidCop	BT(721)	780
GlidCop(1)	365	16.9	0.3210	Steel	11.7	Glass	52 alloy CC	BT(721)	780
GlidCop(1)	365	16.9	0.3210	Steel	11.7	Ceramic	52 alloy CC	BT(721)	780
Cu/Mo/Cu	244	6.8	0.3490	Kovar	5.9	Glass	Kovar	Au/Ge	356
E-60	240	6.1	0.0744	46 Alloy	7.0	Glass	Kovar	Au/Ge	356
E-40	232	7.5	0.0831	46 Alloy	7.0	Glass	Kovar	Au/Ge	356
Cu/W (15/85)(2)	230	6.6	0.5925	Steel	11.7	Ceramic	GlidCop	BT(721)	780
Cu/W (15/85)(2)	230	6.6	0.5925	Kovar	5.9	Ceramic	GlidCop	BT(721)	780
Cu/W (15/85)(2)	230	6.6	0.5925	Gold	16.9	Ceramic	Copper	BT(721)	780
Cu/W (15/85)(2)	230	6.6	0.5925	Copper	16.9	Ceramic	52 alloy CC	BT(721)	780
AlSic	180	6.7	0.1048	46 Alloy	7.0	Glass	Kovar	Au/Ge	356
AlSic	180	6.7	0.1048	49 Alloy	8.8	Glass	Kovar	Au/Ge	356
AlSic	180	6.7	0.1048	Kovar	5.9	Glass	Kovar	Au/Ge	356
AlSic	180	6.7	0.1048	42 Alloy	5.3	Glass	Kovar	Au/Ge	356
Molybdenum (1)	140	5.1	0.3663	Kovar	5.9	Glass	Kovar	Au/Ge	356
Steel	45	11.7	0.2900	Steel	11.7	Glass	52 alloy CC	BT(721)	780
Kovar (1)	17	5.6	0.3020	Kovar	5.9	Glass	Kovar	Copper	1083

Sort sequence: Base Thermal Conductivity characteristics

NOTES: (1) Yield strength expressed in KSI after brazing @ 1000 deg. C.:
 Copper = 8
 GlidCop = 48+
 Kovar = 50
 Molybdenum = 81

(2) Copper/Tungsten is also available in 10/90 Composition.

52 Alloy CC on Kovar leads are also available with Copper butt brazed extensions.

The brazing process of DBC/BeO; DBC/Al₂O₃; Thick Film/BeO substrate is available along with ground/drain clip attachment.

Sinclair

MANUFACTURING COMPANY

P.O. Box 398, 12 South Worcester Street, Chartley, MA 02712 USA (508)222-7440 FAX(508)226-0517

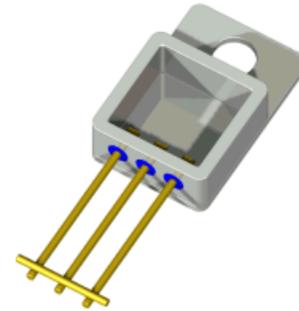
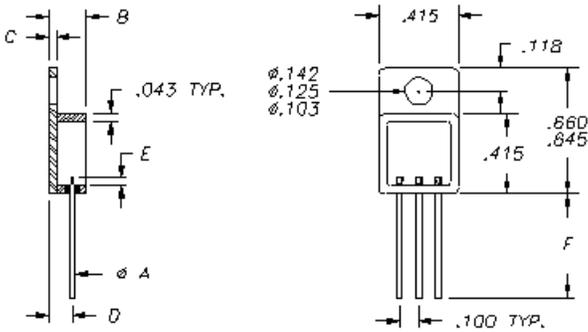
E-mail: sales@;engineering@;quality@sinclairmfg.com www.sinclairmfg.com

Power Packages

Sinclair SQ415 / JEDEC TO-257 Series

Outline

Image



Notes:

- Parts subject to revision without notice.
- Call Sinclair to verify design, inventory counts and pricing.
- \$750 minimum order.

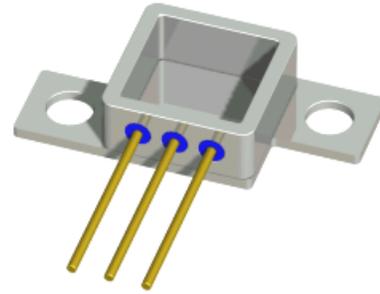
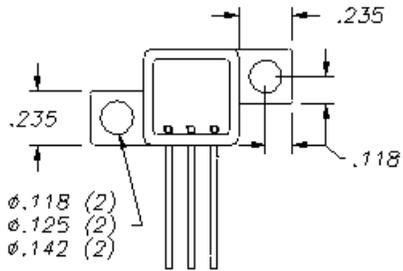
Details

Part Number	File No.	A	B	C	D	E	F	NOTES
SQ415-120-3GC	PP-0265	.018	.120	.020	.070	.045	.500 MIN.	NO TAB; LOW PROFILE
SQ415-120-6GC	PP-0550	.018	.120	.020	.070	.045	.500 MIN.	NO TAB; LOW PROFILE
SQ415-117-6-1GC	PP-0759	.018	.120	.020	.070	.045	.500 MIN.	NO TAB; LOW PROFILE; ID BEAD
SQ415-650-142-3	PP-0072	.018	.189	.031	.110	.045	.540	
SQ415-140-6GC	PP-0787	.025	.140	.020	.080	.040	.200	SURFACE MOUNT - FORMED LEADS
SQ415-145-3CGC	PP-0875	.025	.145	.020	.082	.050	.500 MIN.	CERAMIC SEALS; NO TAB; LOW-PROFILE
SQ415-150-6	PP-0606	.025	.150	.020	.085	.040	.750 MIN.	6 PIN - 1 PIECE TUB BODY
SQ415-189-2-1G-Cu1	PP-0172	.025	.189	.031	.110	.040	.540	52 ALLOY PIN #2 GROUND TO CASE; COPPE
SQ415-650-025-3	PP-0071	.025	.189	.031	.110	.042	.540	
SQ415-3-125-MB-3	PP-0038	.025	.189	.031	.110	.067	.514	MOLY PAD
SQ415-199-3	PP-0176	.025	.199	.040	.120	.067	.514	
SQ415-185-2-1G	PP-0231	.030	.185	.040	.120	.070	.625	52 ALLOY #2 PIN GROUND TO CASE
SQ415-189-3Z	PP-0174	.030	.189	.031	.110	.040	.750 MIN.	.142 HOLE "Z" BASE
SQ415-189-3-1	PP-0069	.030	.189	.031	.110	.042	.540	
SQ415-650-030-3PLD	PP-0136	.030	.189	.031	.110	.045	.218/.560	PINS BENT DOWN
SQ415-650-030-3	PP-0262	.030	.189	.031	.110	.045	.540	.082 DIA. GLASS SEALS
SQ415-189-6	PP-0162	.030	.189	.031	.110	.045	.540	
SQ415-189-6-1GR	PP-0095	.030	.189	.031	.110	.045	.540	ID BEAD; "S" IN FRAME
SQ415-189-6SC	PP-0083	.030	.189	.031	.110	.045	.540	STRAIGHT PINS - NO BOND FLATS
SQ415-189-3Z-1	PP-0288	.030	.189	.031	.110	.070	.500 MIN.	.125 HOLE "Z" BASE
SQ415-189-3-7Z	PP-0542	.030	.189	.031	.110	.070	.600 MIN.	.142 HOLE "Z" BASE
SQ415-190-3-21	PP-0760	.030	.190	.040	.115	.042	.550 MIN.	ALUMINA PAD; PIN #2 ATTACHED
SQ415-190-3-19C	PP-0722	.030	.190	.040	.115	.060	.550 MIN.	CERAMIC SEALS; ALUMINA PAD
SQ415-190-3-17	PP-0697	.030	.190	.040	.115	.062	.750 MIN.	
SQ415-190-3-24	PP-0766	.030	.190	.040	.115	.062	.750 MIN.	BERYLLIA PAD; PIN #1 CLIP
SQ415-190-3-25	PP-0767	.030	.190	.040	.115	.062	.750 MIN.	BERYLLIA PAD; PIN #2 CLIP
SQ415-190-6-2	PP-0282	.030	.190	.040	.120	.040	.090/.300	6 PINS, BENT DOWN
SQ415-190-3-3	PP-0280	.030	.190	.040	.120	.040	.115/.105	PINS BENT UP
SQ415-190-3-2	PP-0219	.030	.190	.040	.120	.040	.135	ID BEAD & "S" IN FRAME
SQ415-190-3-1	PP-0191	.030	.190	.040	.120	.040	.540	TO-257AA PACKAGE
SQ415-190-3-6GC	PP-0459	.030	.190	.040	.120	.040	.540	TO-257AA PACKAGE
SQ415-190-3-14	PP-0647	.030	.190	.040	.120	.040	.750 MIN.	
SQ415-190-6-4	PP-0588	.030	.190	.040	.120	.050	.750 MIN.	6 PIN
SQ415-190-3-15C	PP-0670	.030	.190	.040	.120	.055	.750 MIN.	CERAMIC SEALS
SQ415-190-3-26C	PP-0795	.030	.190	.040	.120	.055	.750 MIN.	CERAMIC SEALS; GC PINS
REC420-415-190-3	PP-0735	.030	.190	.040	.120	.095	.800 MIN.	.050 WALL x1; .040 WALL x3
SQ415-195-3	PP-0916	.030	.295	.040	.120	.040	.750 MIN.	
SQ415-189-3-2	PP-0070	.040	.189	.031	.110	.042	.540	TO-257 AB PACKAGE
SQ415-650-040-3	PP-0261	.040	.189	.031	.110	.045	.540	.082 DIA. GLASS SEALS
SQ415-189-3-11	PP-0772	.040	.189	.031	.110	.060	.520	

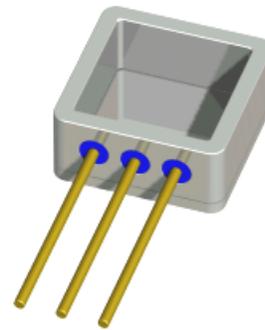
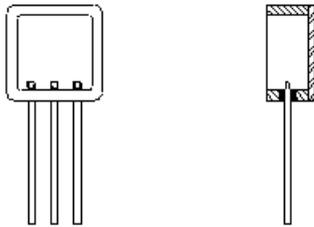
Power Packages

Sinclair SQ415 / JEDEC TO-257 Series

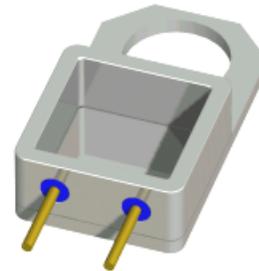
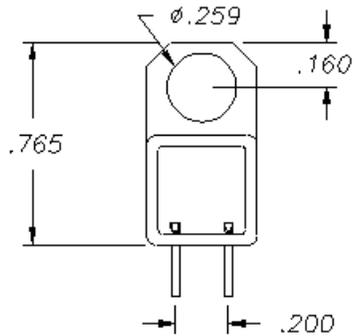
"Z" Base



Tabless Base



Large Hole Base

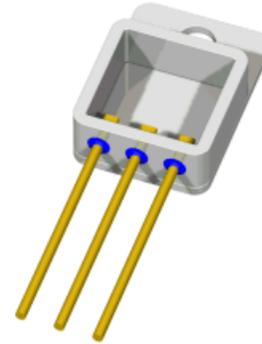
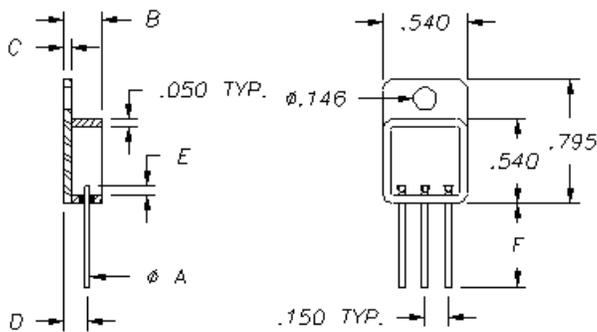


Power Packages

Sinclair SQ540 / JEDEC TO-254 Series

Outline

Image



Notes:

- Parts subject to revision without notice.
- Call Sinclair to verify design, inventory counts and pricing.
- \$750 minimum order.

Details

Part Number	File No.	A	B	C	D	E	F	NOTES
SQ540-250-4	PP-0155	.025	.245	.045	.145	.065	.525	4 PIN
SQ540-245-4-1	PP-0718	.025	.245	.045	.145	.065	.750 MIN.	4 PINS
SQ540-240-8NT	PP-0384	.030	.240	.040	.140	.070	.750 MIN.	8 PIN; TABLESS BASE
SQ540-245-6-1	PP-0765	.030	.245	.045	.145	.070	.750 MIN.	6 PIN; SPECIAL TAB BASE
SQ540-250-8-1	PP-0780	.030	.250	.040	.150	.065	.750 MIN.	8 PINS; TABLESS BASE
SQ540-250-3-7C	PP-0549	.030	.250	.045	.147	.075	.800 MIN.	CERAMIC SEALS; TABLESS / ROUNDED BAS
SQ540-250-8NT	PP-0663	.030	.250	.050	.150	.070	.750 MIN.	8 PIN; TABLESS; ID BEAD
SQ540-250-3-5GC	PP-0484	.032	.250	.045	.145	.070	.750 MIN.	
SQ540-190-3	PP-0678	.040	.190	.020	.120	.065	.700 MIN.	CUSTOM; MACHINED / LAPPED
SQ540-240-3-1GC	PP-0899	.040	.240	.040	.140	.065	.540	TABLESS BASE
SQ540-245-3Z-1	PP-0396	.040	.245	.040	.145	.090	.750 MIN.	.940 "Z" BASE
SQ540-250-3PLD	PP-0135	.040	.245	.045	.145	.065	.200/.625	PINS BENT DOWN
SQ540-245-3PLDNT	PP-0194	.040	.245	.045	.145	.065	.200/.625	PINS BENT DOWN; TABLESS BASE
SQ540-250-3	PP-0049	.040	.245	.045	.145	.065	.540	
SQ540-245-3-5GC	PP-0458	.040	.245	.045	.145	.065	.540	
SQ540-800-3	PP-0138	.040	.245	.045	.145	.065	.700 MIN.	
SQ540-250-3Z	PP-0142	.040	.245	.045	.145	.065	.750 MIN.	"Z" BASE
SQ540-250-3-6	PP-0552	.040	.245	.045	.145	.065	.950 MIN.	
SQ540-245-3-17C	PP-0783	.040	.245	.045	.145	.085	.550 MIN.	CERAMIC SEALS; GC PINS; WCU BASE
SQ540-245-3-12C	PP-0714	.040	.245	.045	.145	.085	.750 MIN.	CERAMIC SEALS; 52CC PINS, WCU BASE
SQ540-245-3-22CZGC	PP-0911	.040	.245	.045	.145	.090	.750 MIN.	.940 "Z" BASE; CERAMIC SEALS; GC PINS
SQ540-245-3-21C	PP-0879	.040	.245	.045	.145	.095	.550 MIN.	CERAMIC SEALS; GC PINS; WCU BASE
SQ540-250-3-32CWCU	PP-0937	.040	.250	.045	.145	.087	.510 MIN.	LOW-OHMIC; BEO; CLIP #1; CERAMIC BULKH
SQ540-250-3-9GC	PP-0562	.040	.250	.045	.150	.065	.700 MIN.	
SQ540-250-3-34GC	PP-0945	.040	.250	.045	.150	.065	.700 MIN.	
SQ540-250-3-10ZGC	PP-0600	.040	.250	.045	.150	.065	.700 MIN.	.940 "Z" BASE
SQ540-250-3-12ZGC	PP-0667	.040	.250	.045	.150	.065	.700 MIN.	1.060 "Z" BASE
SQ540-250-3-14ZGC	PP-0692	.040	.250	.045	.150	.065	.700 MIN.	1.060 "Z" BASE
SQ540-250-3-24CZGC	PP-0801	.040	.250	.045	.150	.070	.750 MIN.	.940 "Z" BASE; CERAMIC SEALS; 52CC PINS
SQ540-250-3-23CZGC	PP-0800	.040	.250	.045	.150	.070	.750 MIN.	.940 "Z" BASE; CERAMIC SEALS; GC PINS
SQ540-250-3-28CZGC	PP-0877	.040	.250	.045	.150	.070	.750 MIN.	1.060 "Z" BASE; CERAMIC SEALS; 52CC PINS
SQ540-250-3-13CGC	PP-0669	.040	.250	.045	.150	.070	.750 MIN.	CERAMIC SEALS; 52CC PINS
SQ540-250-3-17CGC	PP-0745	.040	.250	.045	.150	.070	.750 MIN.	CERAMIC SEALS; 52CC PINS
SQ540-250-3-27C	PP-0864	.040	.250	.045	.150	.070	.750 MIN.	CERAMIC SEALS; 52CC PINS; COPPER BASE
SQ540-250-3-25CGC	PP-0833	.040	.250	.045	.150	.070	.750 MIN.	CERAMIC SEALS; CU FRAME; GC PINS
SQ540-250-3-26C	PP-0850	.040	.250	.045	.150	.070	.750 MIN.	CERAMIC SEALS; CU FRAME; TABLESS BAS
SQ540-250-3-19CZGC	PP-0750	.040	.250	.045	.150	.075	.750 MIN.	1.060 "Z" BASE; CERAMIC SEALS; 52CC PINS
SQ540-250-3-22CZGC	PP-0799	.040	.250	.045	.150	.075	.750 MIN.	1.060 "Z" BASE; CERAMIC SEALS; GC PINS
SQ540-250-3-30CGC	PP-0910	.040	.250	.045	.150	.080	.540	CERAMIC SEALS; 52CC PINS
SQ540-250-3-33CWCU	PP-0943	.040	.250	.045	.150	.080	.540	TABLESS BASE; CU FRAME; CERAMIC SEAL

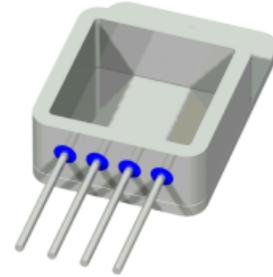
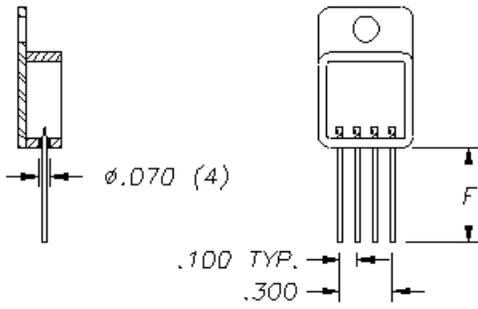
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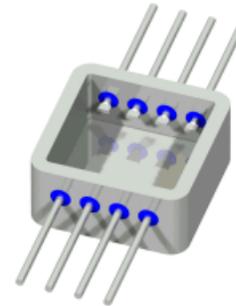
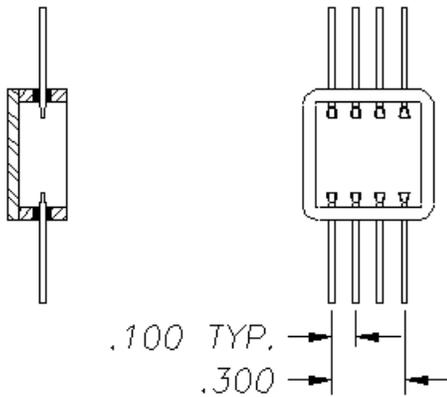
Power Packages

Sinclair SQ540 / JEDEC TO-254 Series

4 Pin Layout



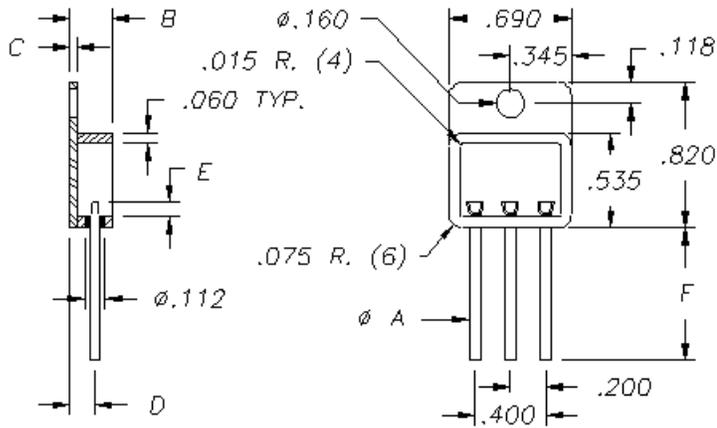
8 Pin Layout



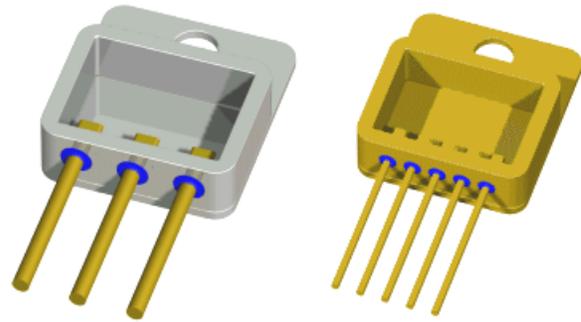
Power Packages

Sinclair REC690-535 / JEDEC TO-258 & MO-078 Series

Outline



Image



Notes:

- Parts subject to revision without notice.
- Call Sinclair to verify design, inventory counts and pricing.
- \$750 minimum order.

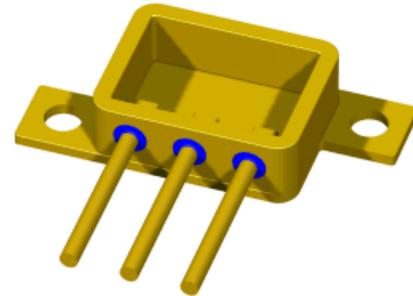
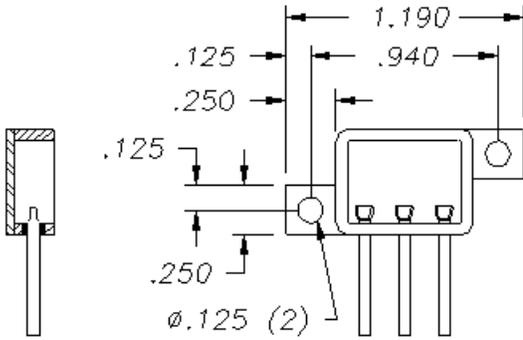
Details

Part Number	File No.	A	B	C	D	E	F	NOTES
REC690-535-140-5GC	PP-0872	.019	.140	.030	.085	.045	.450 MIN.	5 PIN; LOW PROFILE
REC690-535-240-5-11	PP-0839	.030	.240	.040	.140	.070	.700 MIN.	5 PINS
REC690-535-240-5-12Z	PP-0921	.030	.240	.040	.140	.070	.700 MIN.	STEEL FRAME; STEEL "Z" BASE; ID BEAD
REC690-535-240-5	PP-0012	.030	.240	.040	.140	.070	.750 MIN.	5 PINS
REC690-535-240-5-3ZGC	PP-0539	.030	.240	.040	.140	.070	.750 MIN.	5 PINS
REC690-535-240-5-10Z	PP-0743	.030	.240	.040	.140	.070	.750 MIN.	5 PINS; STEEL "Z" BASE
REC690-535-240-5-9	PP-0742	.030	.240	.040	.140	.070	.750 MIN.	5 PINS; STEEL BASE
REC690-535-240-3-2GF	PP-0273	.030	.240	.040	.140	.070	.800 MIN.	2 GLASS-FILLED HOLES (BASED ON 5 PIN)
REC690-535-240-5-4	PP-0565	.030	.240	.040	.140	.070	.800 MIN.	5 PINS
REC690-535-240-5-6Z	PP-0671	.030	.240	.040	.140	.070	.800 MIN.	5 PINS; "Z" BASE
REC690-535-240-5-1GR	PP-0096	.030	.240	.040	.140	.070	.825	5 PINS; ID BEAD; "S" IN FRAME
REC690-535-240-5-1GRPLU	PP-0301	.030	.240	.040	.140	.075	.125/.215	5 PINS BENT UP; ID BEAD; "S" IN FRAME
REC690-535-240-5-13	PP-0933	.030	.240	.040	.140	.090	.750 MIN.	MOLY PAD
REC690-535-240-5-2	PP-0321	.030	.240	.040	.140	.100	.600 MIN.	SIDE TAB BASE
REC690-535-240-5SC	PP-0166	.030	.240	.040	.140	.100	.625	STRAIGHT PINS - NO BOND FLATS
REC690-535-245-3-5CGC	PP-0737	.030	.245	.040	.140	.070	.900 MIN.	CERAMIC SEALS; 52CC PINS
REC690-535-245-3-1ZGC	PP-0476	.030	.245	.040	.140	.080	.750 MIN.	"Z" BASE
REC690-535-248-5PLD	PP-0137	.030	.248	.048	.148	.070	.173/.560	PINS BENT DOWN
REC690-535-248-5	PP-0114	.030	.248	.048	.148	.070	.750 MIN.	
REC690-535-185-5GC	PP-0597	.040	.185	.030	.107	.070	.500 MIN.	5 PIN; LOW PROFILE
REC690-535-240-8GC	PP-0889	.040	.240	.040	.140	.045	.575 MIN.	8 PINS; "Z" BASE
REC690-535-240-8-1GC	PP-0900	.040	.240	.040	.140	.045	.575 MIN.	8 PINS; NO TAB
REC690-535-240-8-3CGC	PP-0925	.040	.240	.040	.140	.055	.380	"Z" TAB BASE; CERAMIC SEALS
REC690-535-240-3-2	PP-0294	.040	.240	.040	.140	.070	.750 MIN.	
REC690-535-248-1500-3	PP-0250	.040	.248	.048	.148	.070	1.535	
REC690-535-255-3-19CZ	PP-0826	.040	.255	.040	.140	.075	.725	CERAMIC SEALS; "Z" BASE; PIN #1 CLIP
REC690-535-255-3-20CZ	PP-0827	.040	.255	.040	.140	.075	.725	CERAMIC SEALS; "Z" BASE; PIN #2 CLIP
REC690-535-255-3-23C	PP-0830	.040	.255	.040	.140	.075	.725	CERAMIC SEALS; WCU BASE; LG FLATS 1&3
REC690-535-255-3-22C	PP-0829	.040	.255	.040	.140	.075	.725	CERAMIC SEALS; WCU BASE; LG FLATS 2&3
REC690-535-255-3-27C	PP-0885	.040	.255	.040	.140	.105	.610	CERAMIC SEALS; WCU BASE; PIN #2 CLIP
REC690-535-240-3-19C	PP-0874	.050	.240	.040	.140	.085	.750 MIN.	CERAMIC SEALS; GC PINS
REC690-535-255-3CGC	PP-0676	.050	.255	.040	.145	.105	.750 MIN.	CERAMIC SEALS; GC PINS
REC690-535-240-6-1GC	PP-0607	.060	.240	.040	.140	.060	.750 MIN.	6 PINS; NO TAB
REC690-535-240-3-4GC	PP-0437	.060	.240	.040	.140	.070	.500 MIN.	
REC690-535-240-3PLD	PP-0222	.060	.240	.040	.140	.085	.175/.325	PINS BENT DOWN
REC690-535-240-3-20	PP-0153	.060	.240	.040	.140	.085	.750 MIN.	
REC690-535-240-3-9GC	PP-0613	.060	.240	.040	.140	.085	.750 MIN.	
REC690-535-240-3-21GC	PP-0909	.060	.240	.040	.140	.090	.725	
REC690-535-240-3-7	PP-0587	.060	.240	.040	.140	.100	.750 MIN.	
REC690-535-240-3-12GCMO	PP-0630	.060	.240	.040	.140	.100	.750 MIN.	MOLY PAD

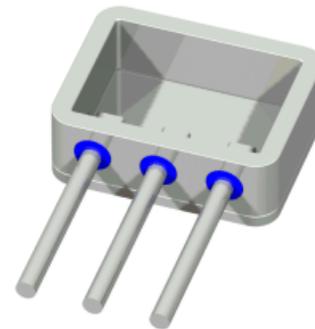
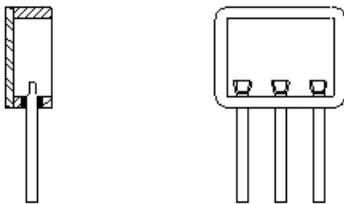
Power Packages

Sinclair REC690-535 / JEDEC TO-258 & MO-078 Series

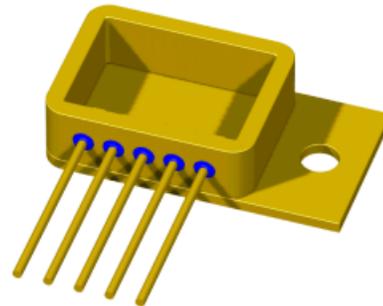
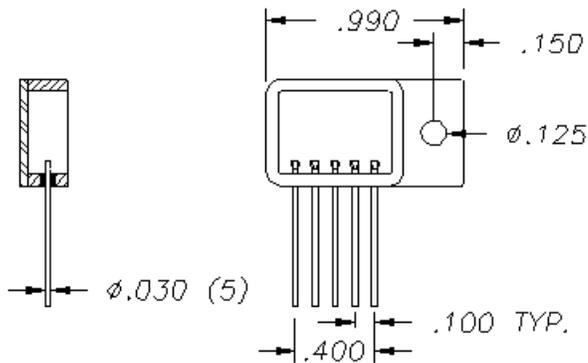
"Z" Base



Tabless Base



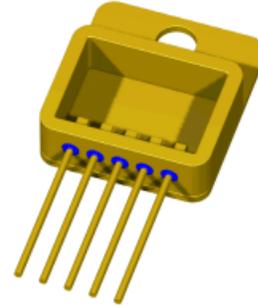
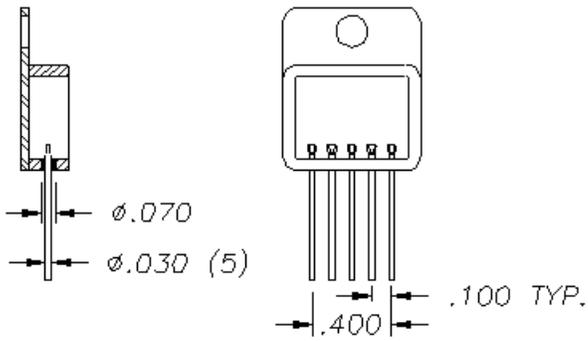
Side Tab Base



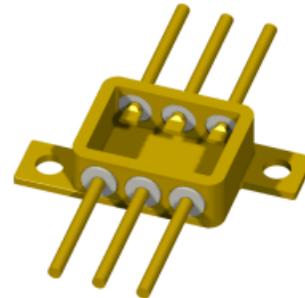
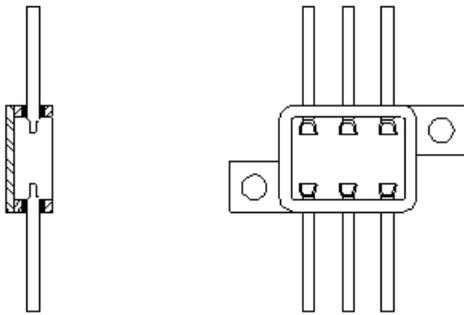
Power Packages

Sinclair REC690-535 / JEDEC TO-258 & MO-078 Series

5 Pin Layout



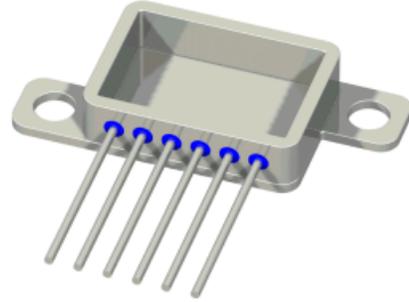
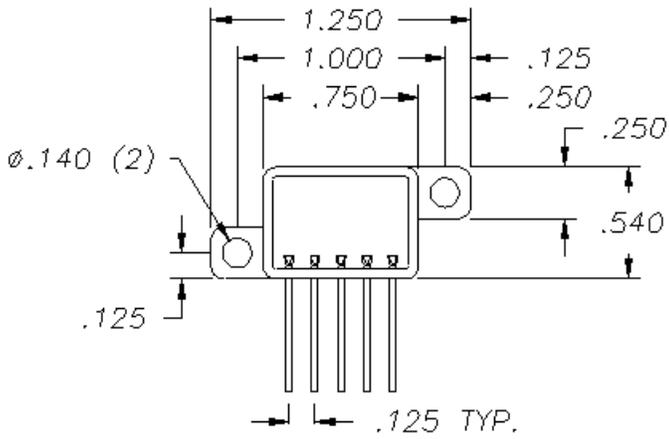
Tabless Base



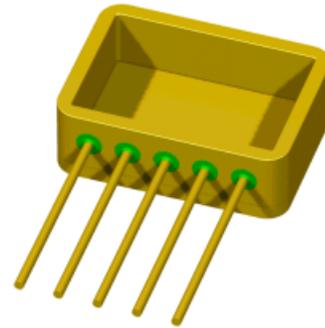
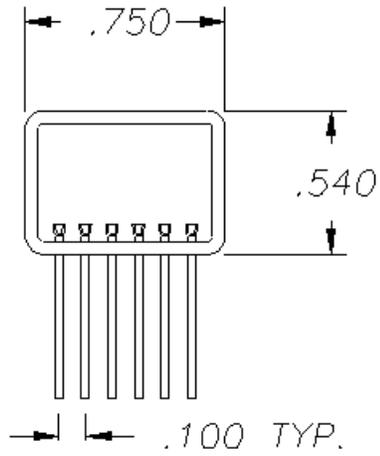
Power Packages

Sinclair REC750-540 Series

"Z" Base



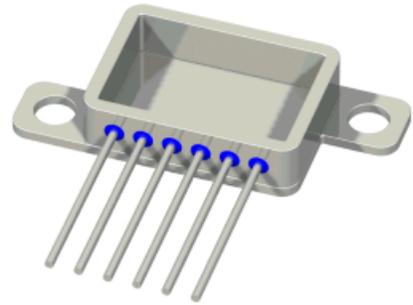
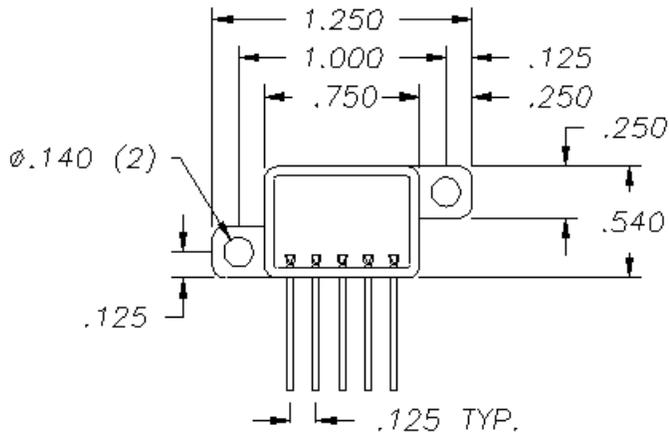
Tabless Base & 6 Pin Layout



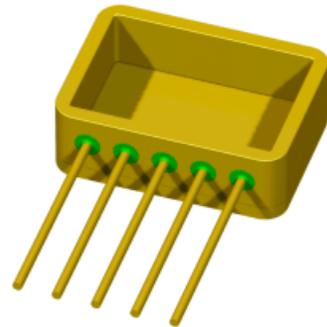
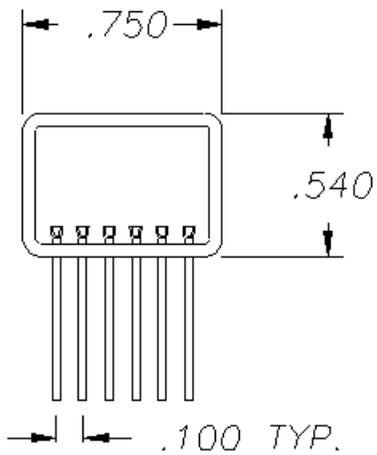
Power Packages

Sinclair REC750-540 Series

"Z" Base



Tabless Base & 6 Pin Layout

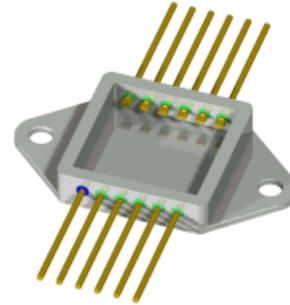
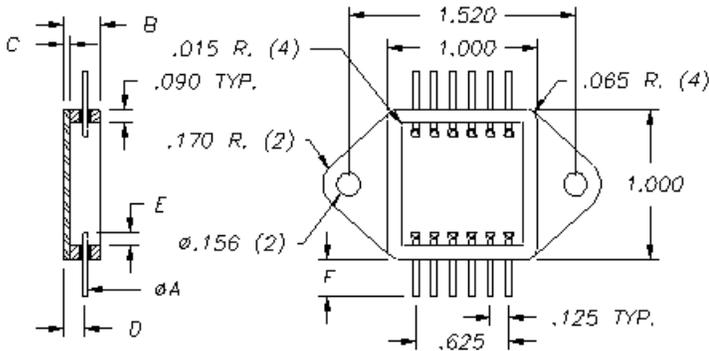


Power Packages

Sinclair SQ1000 / JEDEC MO-079 Series

Outline

Image



Notes:

- Parts subject to revision without notice.
- Call Sinclair to verify design, inventory counts and pricing.
- \$750 minimum order.

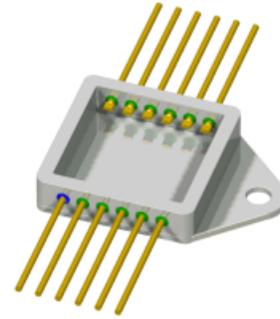
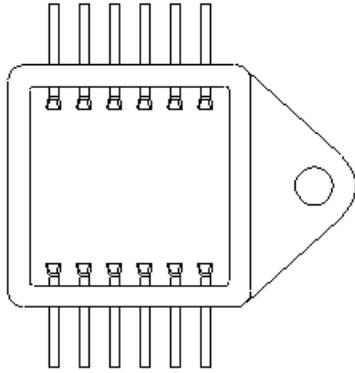
Details

Part Number	File No.	A	B	C	D	E	F	NOTES
SQ1000-250-12-2PLD	PP-0283	.030	.250	.050	.150	.090	.150/.550	PINS BENT DOWN
SQ1000-250-12-2PLDGC	PP-0289	.030	.250	.050	.150	.090	.150/.550	PINS BENT DOWN
SQ1000-250-12-10GC	PP-0463	.030	.250	.050	.150	.090	.750	
SQ1000-250-12-2	PP-0157	.030	.250	.050	.150	.090	.770	
SQ1000-190-12GC	PP-0823	.030-.040	.190	.030	.110	.070	2.000 MIN.	LOW PROFILE; 52CC (.040) TO CU PINS (.03)
SQ1000-250-12-21GC	PP-0573	.030-.040	.250	.050	.150	.070	2.000 MIN.	52CC (.040) TO CU PINS (.030)
SQ1000-245-12-1GC	PP-0614	.040	.245	.040	.140	.090	.750 MIN.	SQ. TABS BASE #3
SQ1000-245-12PLU	PP-0241	.040	.245	.045	.145	.065	.100/.430	PINS BENT UP; SQ. TABS BASE #2
SQ1000-250-12-20	PP-0054	.040	.245	.045	.145	.090	.125/.370	
SQ1000-250-12-12GC	PP-0510	.040	.250	.048	.150	.060	.120/.360	PINS BENT UP; MO-079 AB
SQ1000-250-12-17GC	PP-0715	.040	.250	.048	.150	.060	.510	
SQ1000-250-12-16	PP-0662	.040	.250	.048	.150	.070	.120/.320	PINS BENT DOWN
SQ1000-250-12-14	PP-0540	.040	.250	.050	.150	.050	.120/.363	PINS BENT DOWN; STEEL BASE; ID BEAD
SQ1000-250-12-11D	PP-0483	.040	.250	.050	.150	.060	.120/.363	PINS BENT DOWN
SQ1000-250-6PLDGC	PP-0388	.040	.250	.050	.150	.060	.120/.363	6 PINS, BENT DOWN
SQ1000-250-12-22	PP-0469	.040	.250	.050	.150	.075	.120/.440	PINS BENT DOWN
SQ1000-250-12-4	PP-0390	.040	.250	.050	.150	.080	.600	
SQ1000-610-12	PP-0128	.040	.250	.050	.150	.080	.610	
SQ1000-625-12-1BL	PP-0129	.040	.250	.050	.150	.080	.625	PIN #1 ID BEAD
SQ1000-250-12-EM	PP-0313	.040	.250	.050	.150	.080	.750 MIN.	SINGLE TAB BASE
SQ1000-250-12-15	PP-0631	.040	.250	.050	.150	.085	.120/.363	PINS BENT DOWN
SQ1000-250-6-3	PP-0632	.040	.250	.050	.150	.085	.120/.363	PINS BENT DOWN
SQ1000-250-12-7PLU	PP-0441	.040	.250	.050	.150	.085	.120/.440	PINS BENT UP
SQ1000-250-12-3GC	PP-0335	.040	.250	.050	.150	.085	1.875	CU CORE TO COPPER PINS
SQ1000-250-12-2000-CU-TB	PP-0253	.040	.250	.050	.150	.085	2.000	52 ALLOY SLEEVE OVER COPPER
SQ1000-250-12-18	PP-0377	.040	.250	.050	.150	.090	.120/.350	PINS BENT DOWN
SQ1000-4CL-4BeO2-12PLDMM	PP-0032	.040	.250	.050	.150	.090	.120/.363	PINS BENT DOWN; 4 PINS GROUND TO BEC
SQ1000-250-6PLD	PP-0151	.040	.250	.050	.150	.090	.120/.363	PINS BENT DOWN
SQ1000-250-12-19	PP-0860	.040	.250	.050	.150	.090	.125/.370	PINS BENT DOWN; SQ. TABS BASE #4
SQ1000-250-12	PP-0260	.040	.250	.050	.150	.090	.360	
SQ1000-12-363-080-PLUMM	PP-0062	.040	.250	.050	.150	.092	.120/.363	PINS BENT UP
SQ1000-250-12-9GC	PP-0462	.040	.250	.050	.150	.092	.750 MIN.	TIE BARS
SQ1000-250-12NT	PP-0225	.040	.250	.050	.150	.095	.950	NO TAB BASE
SQ1000-240-8-2GC	PP-0944	.060	.240	.040	.140	.070	.189/.185	PINS BENT UP; 1 PIN GND & TRIMMED INSUL
SQ1000-240-8-1GC	PP-0862	.060	.240	.040	.140	.075	.189/.175	8 PINS BENT UP; SQ. TABS BASE #1
SQ1000-240-8GC	PP-0524	.060	.240	.040	.140	.075	.189/.175	8 PINS BENT UP; SQ. TABS BASE #1; ID BEA

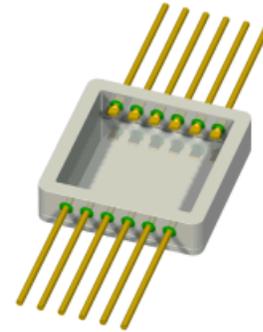
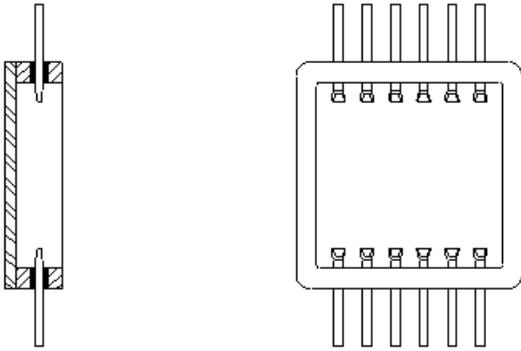
Power Packages

Sinclair SQ1000 / JEDEC MO-079 Series

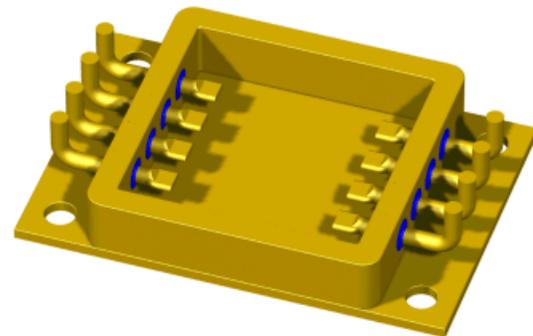
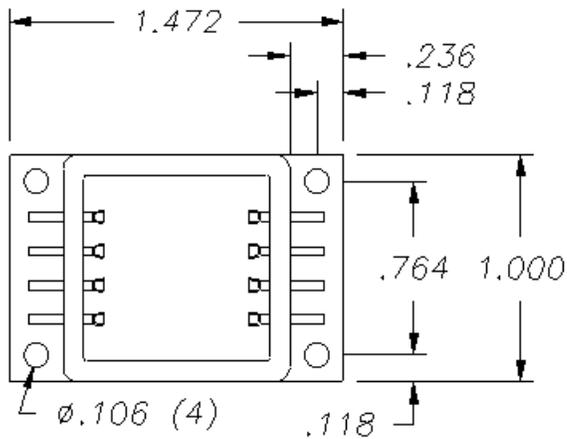
"End-Mount" / Single Tab Base



Tabless Base



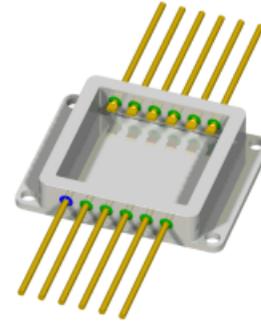
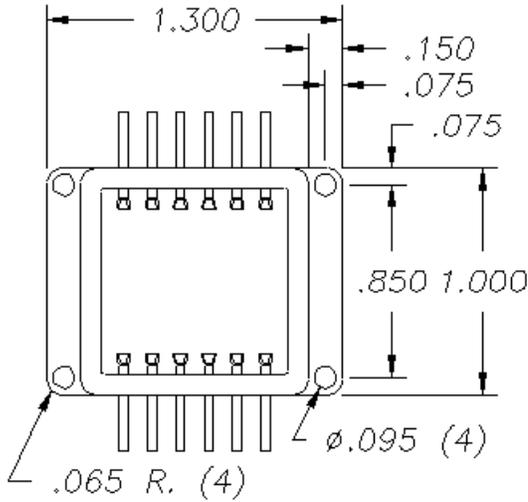
Square Tabs Base #1



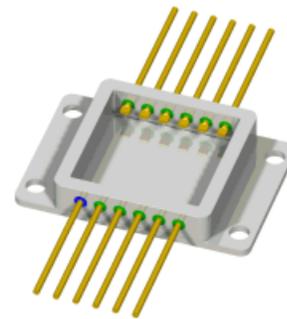
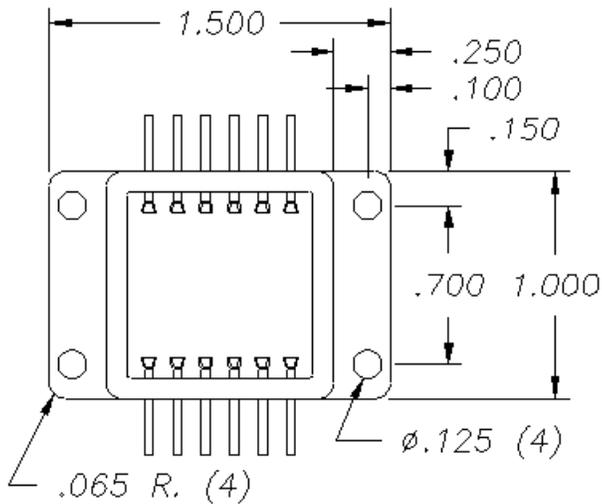
Power Packages

Sinclair SQ1000 / JEDEC MO-079 Series

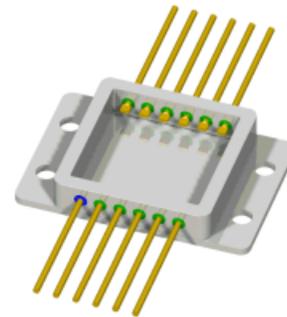
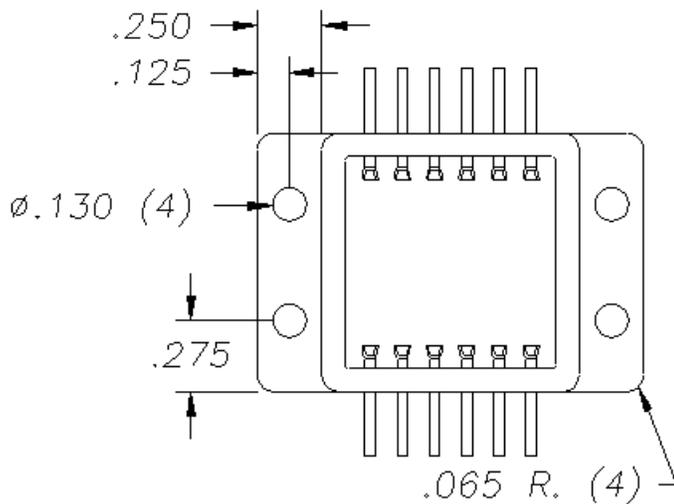
Square Tabs Base #2



Square Tabs Base #3



Square Tabs Base #4

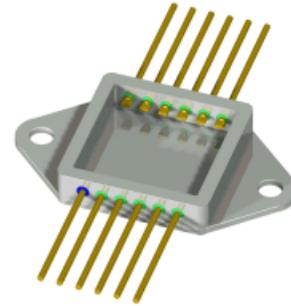
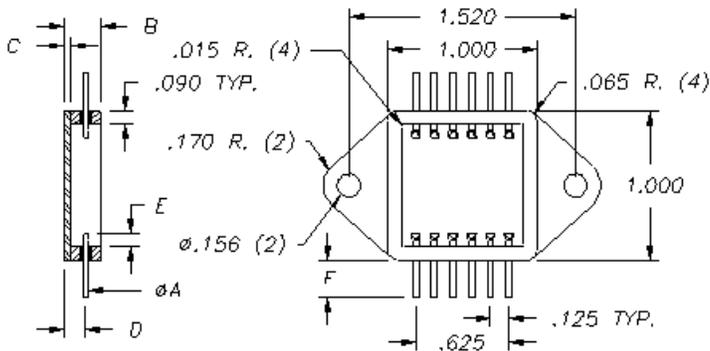


Power Packages

Sinclair SQ1000 / JEDEC MO-079 Series

Outline

Image



Notes:

- Parts subject to revision without notice.
- Call Sinclair to verify design, inventory counts and pricing.
- \$750 minimum order.

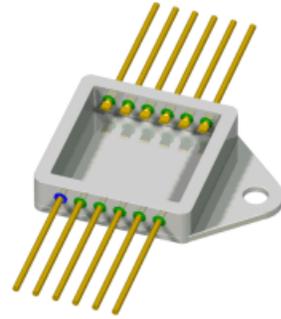
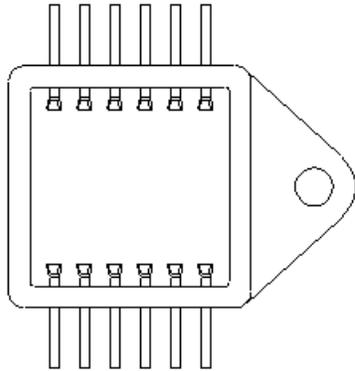
Details

Part Number	A	B	C	D	E	F	NOTES	Stock
SQ1000-250-12-2PLD	.030	.250	.050	.150	.090	.150/.550	PINS BENT DOWN	0
SQ1000-250-12-2PLDGC	.030	.250	.050	.150	.090	.150/.550	PINS BENT DOWN	3
SQ1000-250-12-10GC	.030	.250	.050	.150	.090	.750		1,168
SQ1000-250-12-2	.030	.250	.050	.150	.090	.770		211
SQ1000-190-12GC	.030-.040	.190	.030	.110	.070	2.000 MIN.	LOW PROFILE; 52CC (.040) TO CU PINS (.030)	37
SQ1000-250-12-21GC	.030-.040	.250	.050	.150	.070	2.000 MIN.	52CC (.040) TO CU PINS (.030)	0
SQ1000-245-12-1GC	.040	.245	.040	.140	.090	.750 MIN.	SQ. TABS BASE #3	15
SQ1000-245-12PLU	.040	.245	.045	.145	.065	.100/.430	PINS BENT UP; SQ. TABS BASE #2	54
SQ1000-250-12-20	.040	.245	.045	.145	.090	.125/.370		0
SQ1000-250-12-12GC	.040	.250	.048	.150	.060	.120/.360	PINS BENT UP; MO-079 AB	32
SQ1000-250-12-17GC	.040	.250	.048	.150	.060	.510		0
SQ1000-250-12-16	.040	.250	.048	.150	.070	.120/.320	PINS BENT DOWN	0
SQ1000-250-12-14	.040	.250	.050	.150	.050	.120/.363	PINS BENT DOWN; STEEL BASE	0
SQ1000-250-12-11D	.040	.250	.050	.150	.060	.120/.363	PINS BENT DOWN	0
SQ1000-250-6PLDGC	.040	.250	.050	.150	.060	.120/.363	6 PINS, BENT DOWN	0
SQ1000-250-12-22	.040	.250	.050	.150	.075	.120/.440	PINS BENT DOWN	0
SQ1000-250-12-4	.040	.250	.050	.150	.080	.600		2
SQ1000-610-12	.040	.250	.050	.150	.080	.610		63
SQ1000-625-12-1BL	.040	.250	.050	.150	.080	.625	PIN #1 ID BEAD	46
SQ1000-250-12-EM	.040	.250	.050	.150	.080	.750 MIN.	SINGLE TAB BASE	0
SQ1000-250-12-15	.040	.250	.050	.150	.085	.120/.363	PINS BENT DOWN	7
SQ1000-250-6-3	.040	.250	.050	.150	.085	.120/.363	PINS BENT DOWN	316
SQ1000-250-12-7PLU	.040	.250	.050	.150	.085	.120/.440	PINS BENT UP	98
SQ1000-250-12-3GC	.040	.250	.050	.150	.085	1.875	CU CORE TO COPPER PINS	10
SQ1000-250-12-2000-CU-TB	.040	.250	.050	.150	.085	2.000	52 ALLOY SLEEVE OVER COPPER	28
SQ1000-250-12-18	.040	.250	.050	.150	.090	.120/.350	PINS BENT DOWN	8
SQ1000-4CL-4BeO2-12PLDMM	.040	.250	.050	.150	.090	.120/.363	PINS BENT DOWN; 4 PINS GROUND TO BEO P/	4
SQ1000-250-6PLD	.040	.250	.050	.150	.090	.120/.363	PINS BENT DOWN	9
SQ1000-250-12-19	.040	.250	.050	.150	.090	.125/.370	PINS BENT DOWN; SQ. TABS BASE #4	43
SQ1000-250-12	.040	.250	.050	.150	.090	.360		9
SQ1000-250-12-9GC	.040	.250	.050	.150	.090	.750		8
SQ1000-12-363-080-PLUMM	.040	.250	.050	.150	.092	.120/.363	PINS BENT UP	94
SQ1000-250-12NT	.040	.250	.050	.150	.095	.950	NO TAB BASE	12
SQ1000-240-8-1GC	.060	.240	.040	.140	.075	.189/.175	8 PINS BENT UP; SQ. TABS BASE #1	12
SQ1000-240-8GC	.060	.240	.040	.140	.075	.189/.175	8 PINS BENT UP; SQ. TABS BASE #1; ID BEAD	0

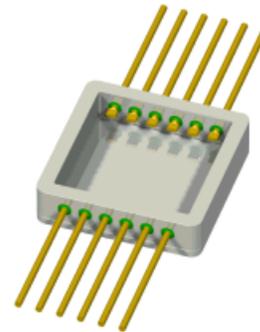
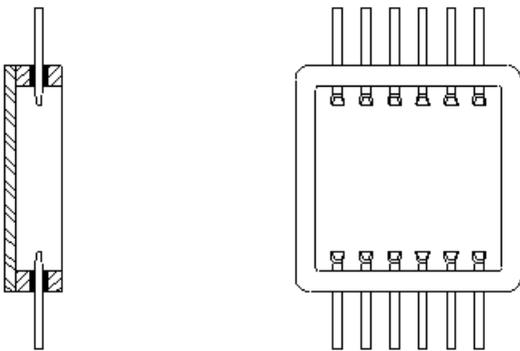
Power Packages

Sinclair SQ1000 / JEDEC MO-079 Series

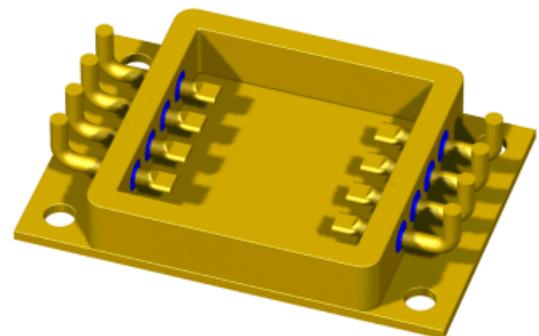
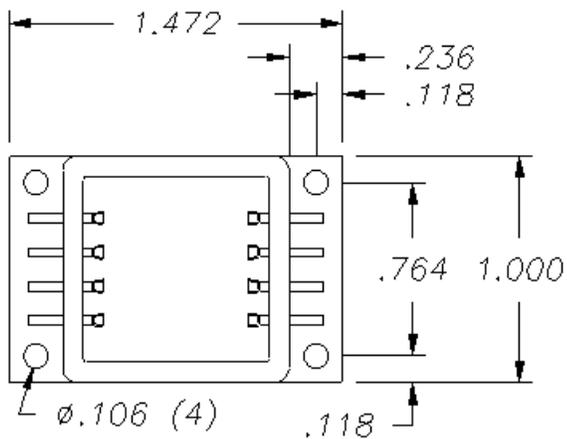
"End-Mount" / Single Tab Base



Tabless Base



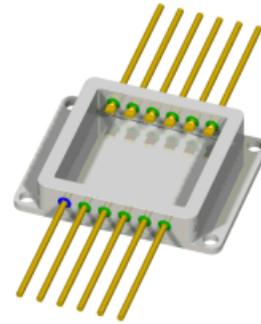
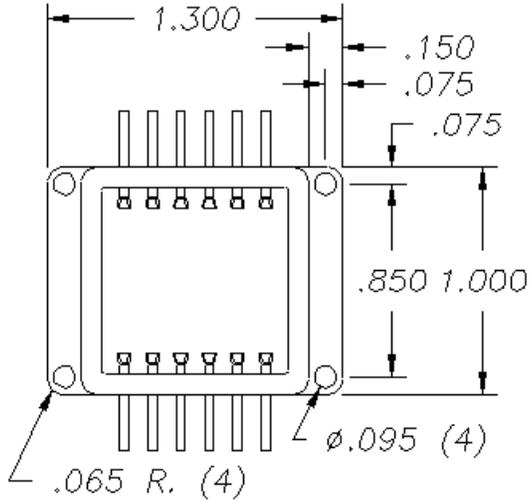
Square Tabs Base #1



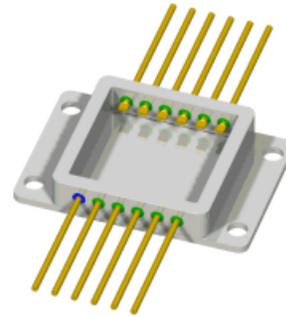
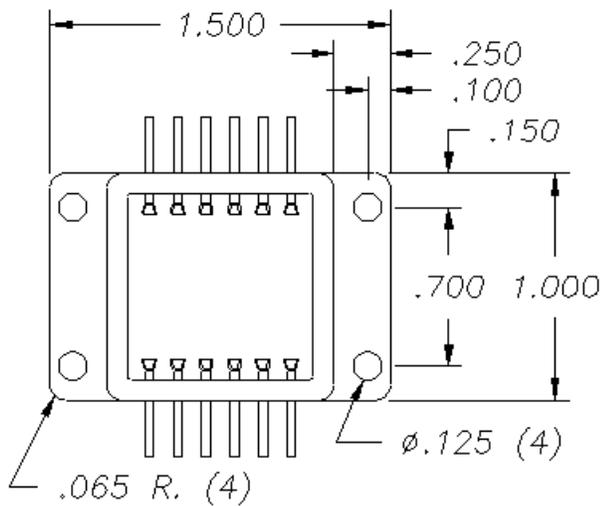
Power Packages

Sinclair SQ1000 / JEDEC MO-079 Series

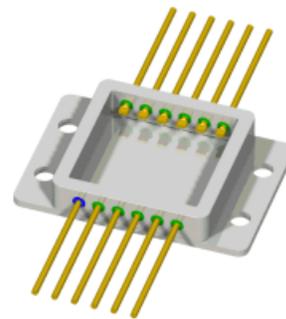
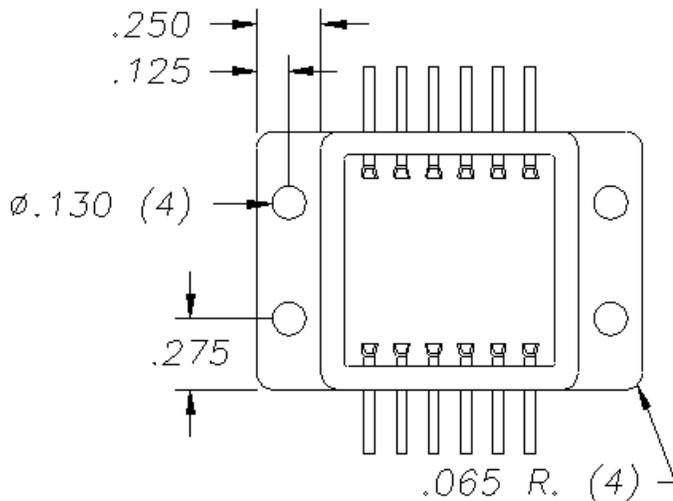
Square Tabs Base #2



Square Tabs Base #3



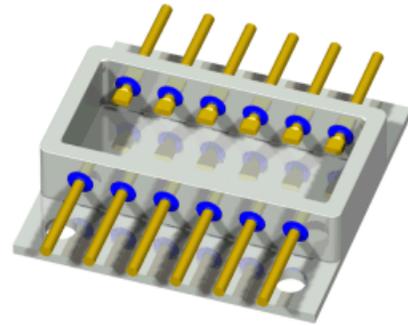
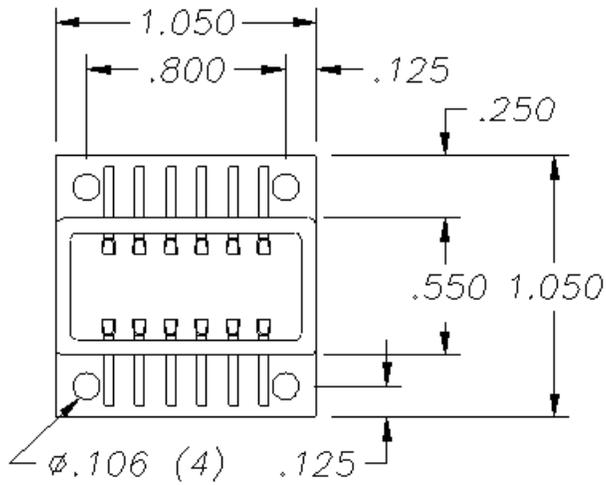
Square Tabs Base #4



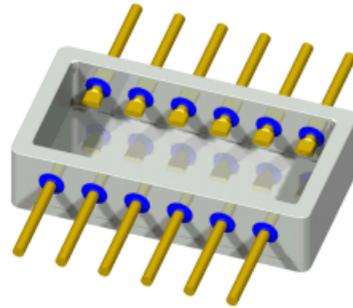
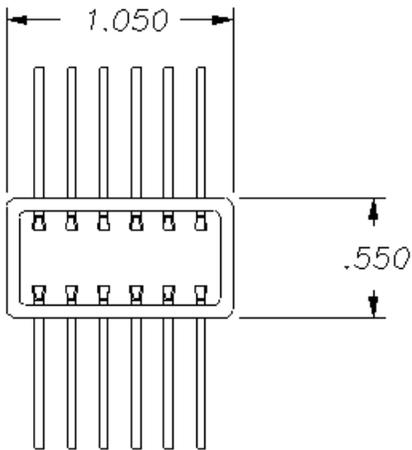
Power Packages

Sinclair REC1050-550 Series

"Z" Base



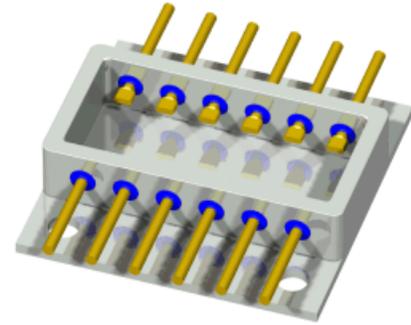
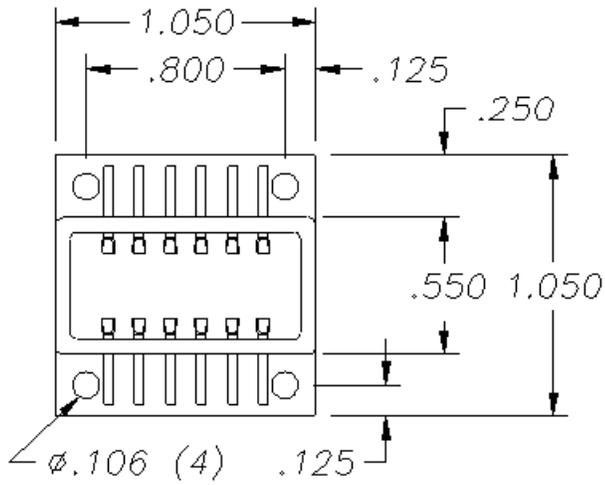
Tabless Base & 6 Pin Layout



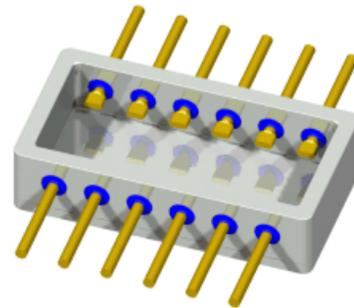
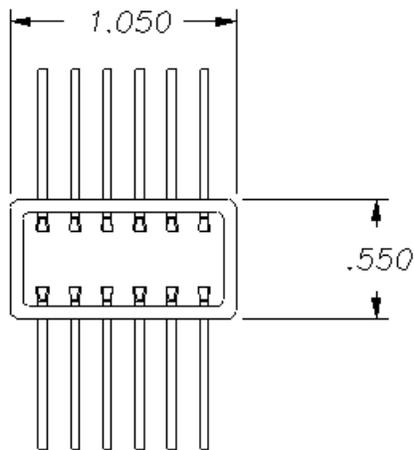
Power Packages

Sinclair REC1050-550 Series

"Z" Base



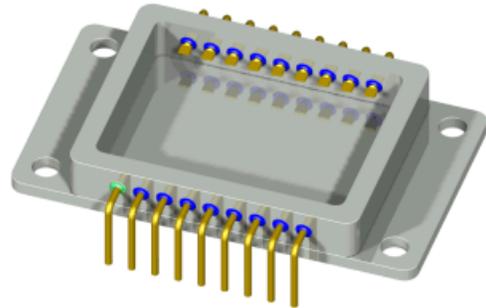
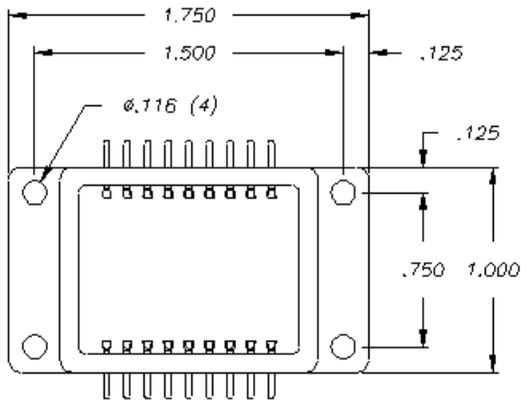
Tabless Base & 6 Pin Layout



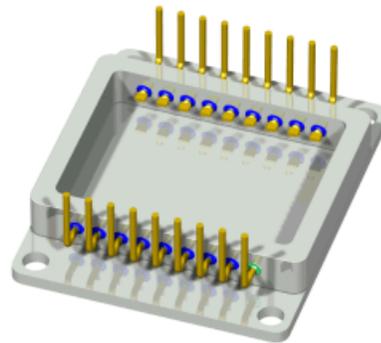
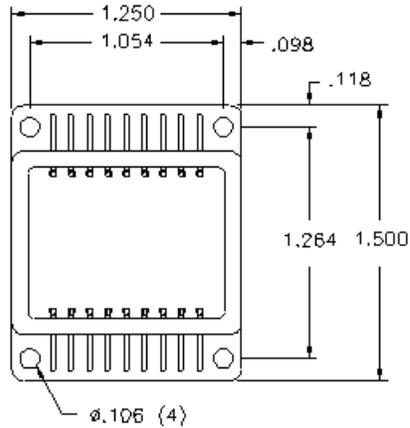
Power Packages

Sinclair REC1250-1000 Series

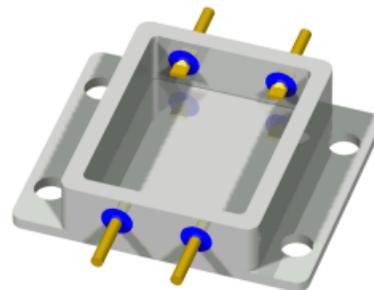
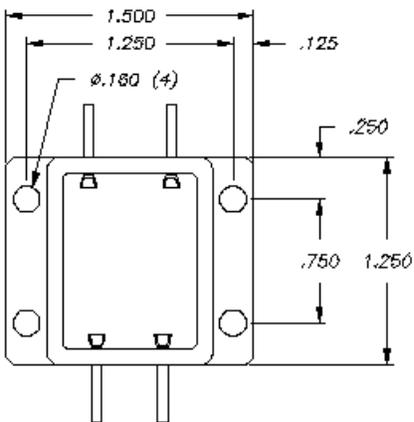
Optional Base #1



Optional Base #2



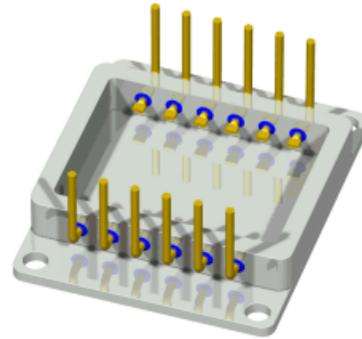
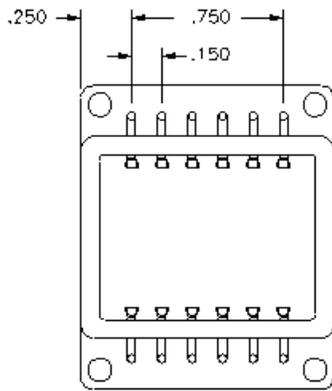
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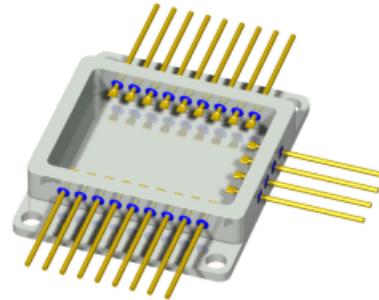
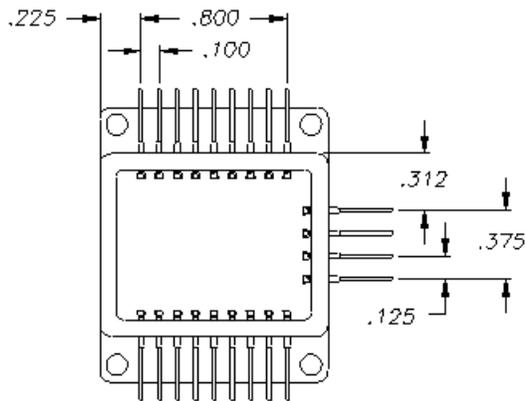
Power Packages

Sinclair REC1250-1000 Series

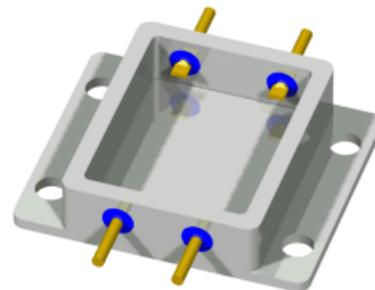
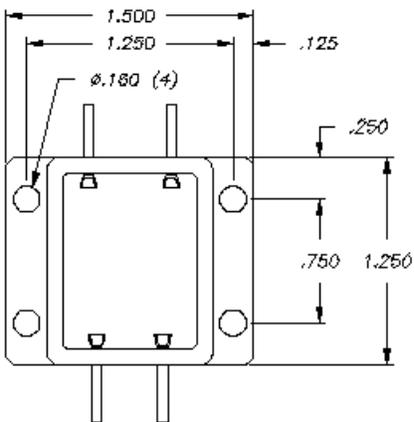
12 Pin Layout



22 Pin Layout



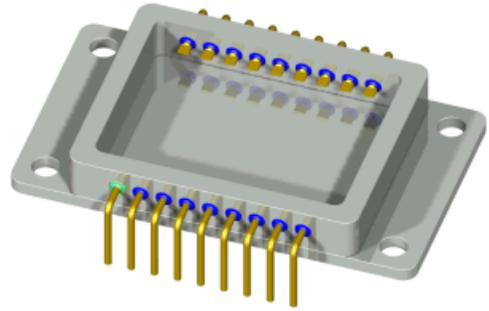
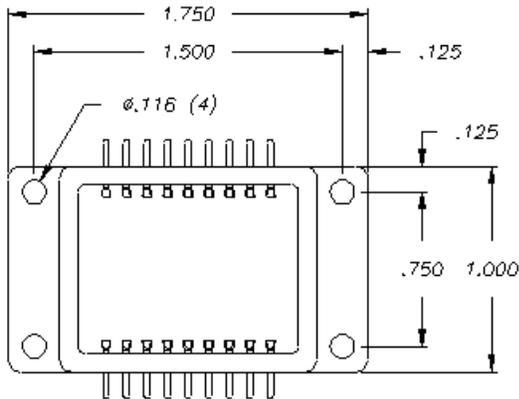
4 Pin Layout



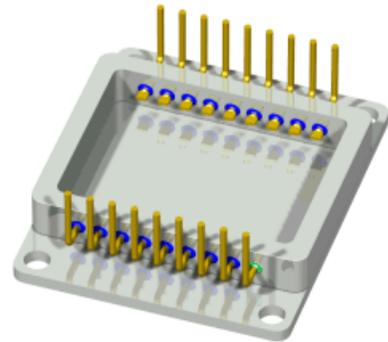
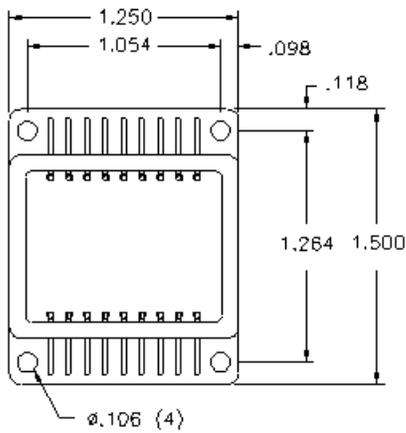
Power Packages

Sinclair REC1250-1000 Series

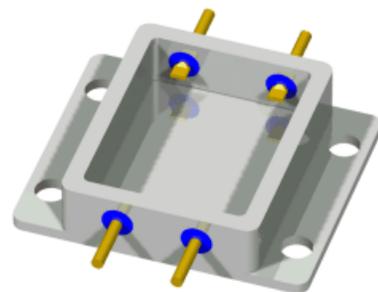
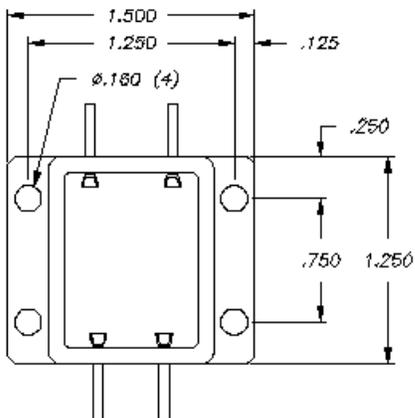
Optional Base #1



Optional Base #2



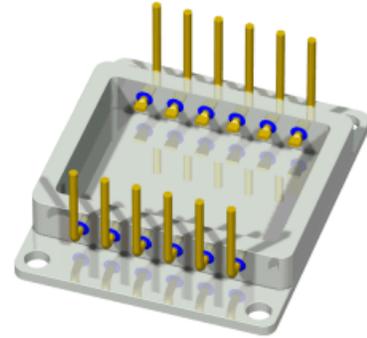
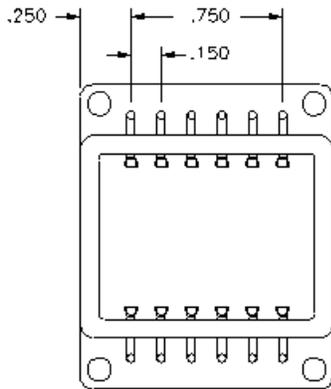
Optional Base #3



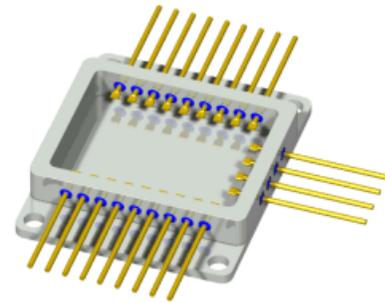
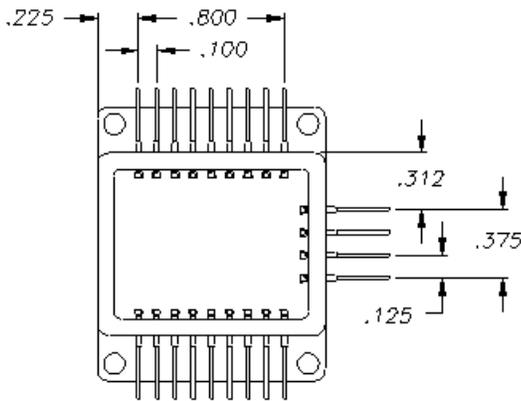
Power Packages

Sinclair REC1250-1000 Series

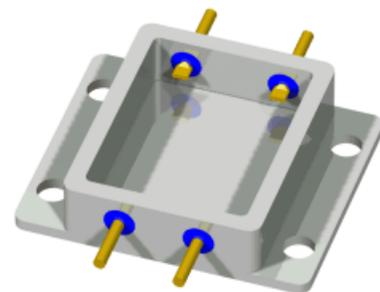
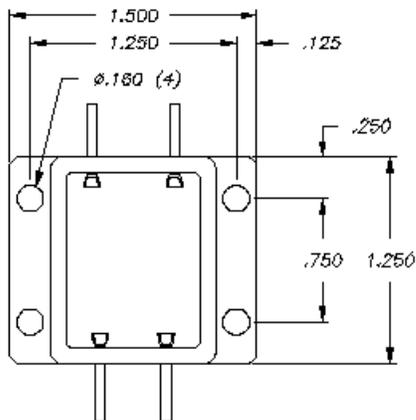
12 Pin Layout



22 Pin Layout



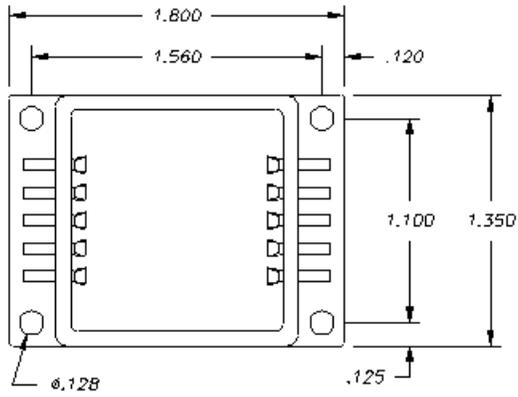
4 Pin Layout



Power Packages

Sinclair REC1350-1300 Series

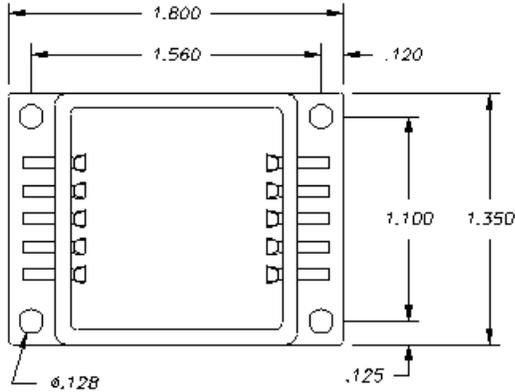
Optional Base #1



Power Packages

Sinclair REC1350-1300 Series

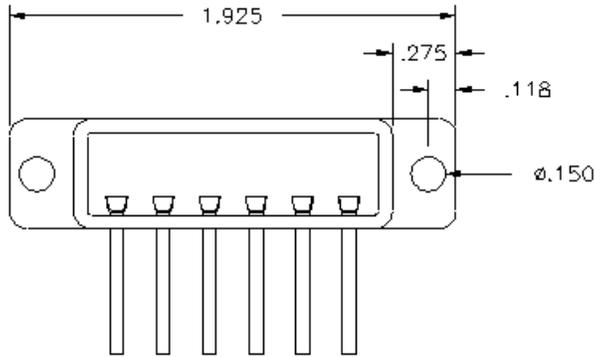
Optional Base #1



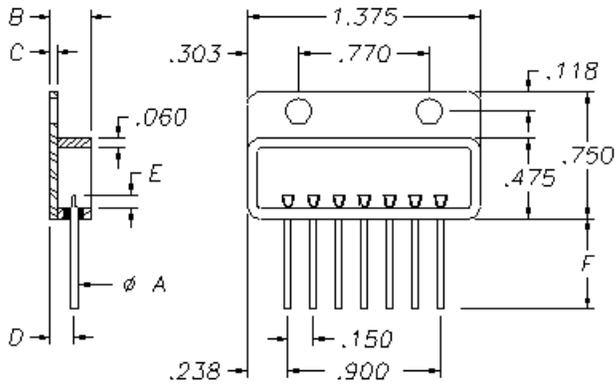
Power Packages

Sinclair REC1375-475 Series

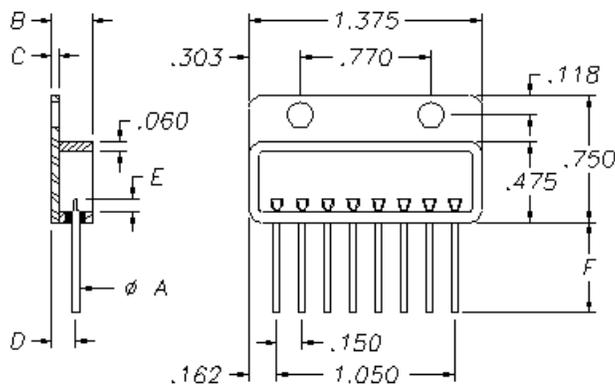
Optional Base #1



7 / 14 Pin Layout



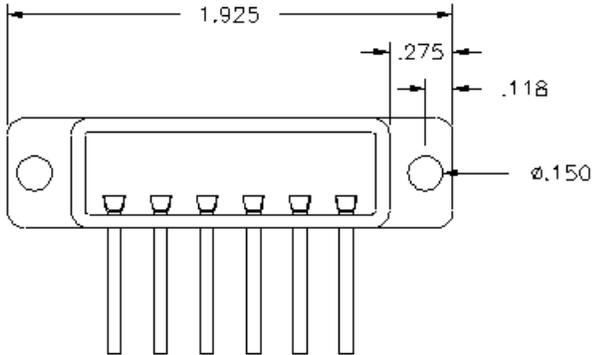
8 / 16 Pin Layout



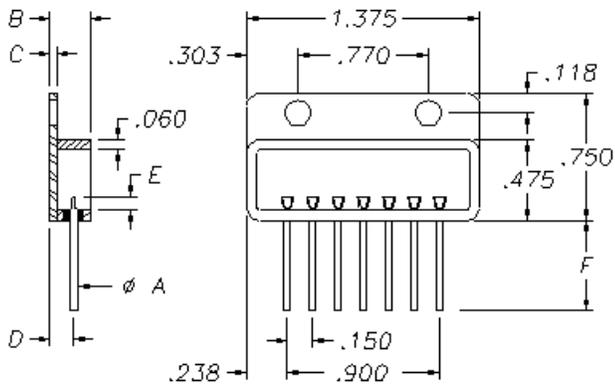
Power Packages

Sinclair REC1375-475 Series

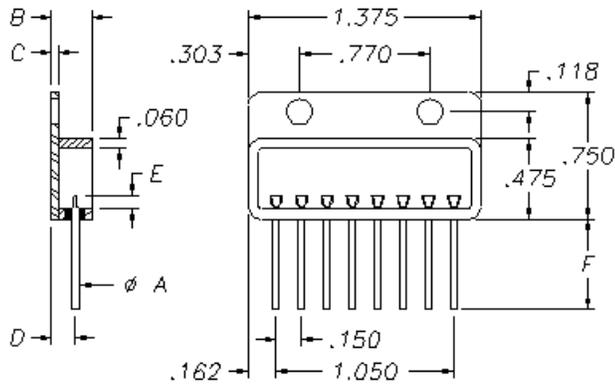
Optional Base #1



7 / 14 Pin Layout



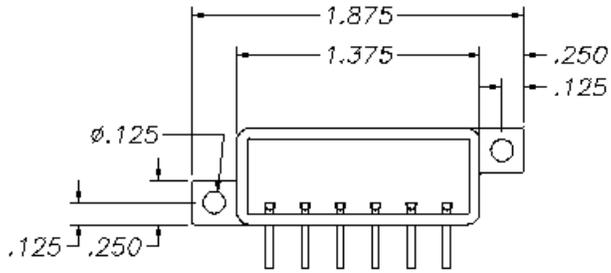
8 / 16 Pin Layout



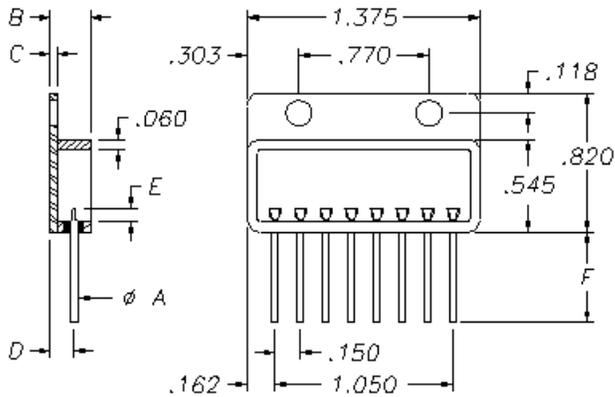
Power Packages

Sinclair REC1375-545 Series

"Z" Base



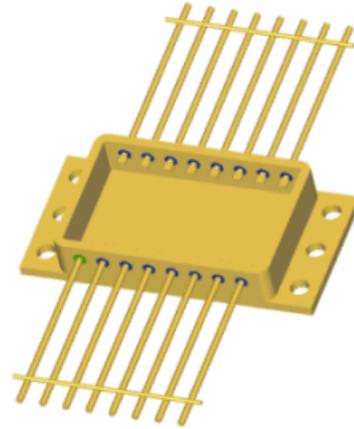
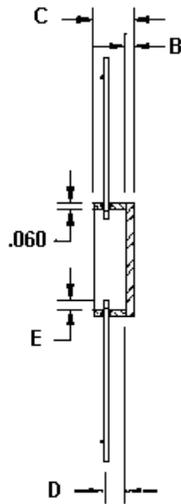
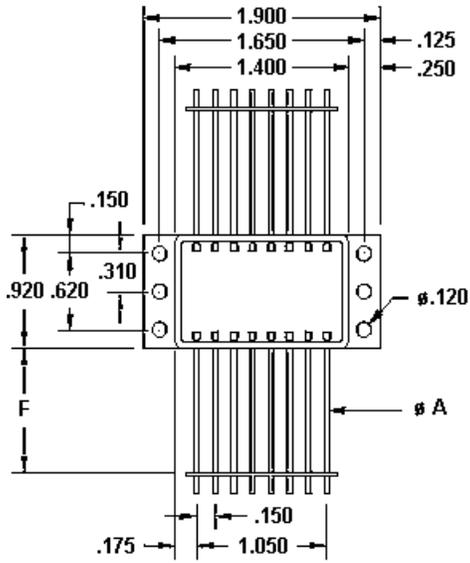
8 / 16 Pin Layout



Power Packages

Sinclair REC1400-920 Series

Optional Base #1



Power Packages

Sinclair REC1400-920 Series

Optional Base #1

