

8000-AG & 8004-1G Series *Crystal Socket Assemblies*



8000-AG2

FEATURES:

The Augat crystal socket assembly is a high quality component manufactured with superior materials to insure dependable mechanical and electrical life. Developed for use with a broad spectrum of crystal sizes, the crystal package can easily be inserted and removed without removing and adjusting latches and/or screws. Once the crystal has been installed it will not shake loose even under severe vibration.

- 8000 Series miniature style is designed to accommodate HC-6/ μ , HC-13/ μ , HC-14/ μ , HC-27/ μ , HC-36/ μ and HC-48/ μ crystal sizes
- 8004 Series subminiature style is designed to accommodate HC-18/ μ , HC-25/ μ , HC-42/ μ , HC-43/ μ , HC-49/ μ and HC-50/ μ crystal sizes
- Contact designs include flow-solder, horizontal solder eyelet and right angle solder eyelet tails, in both machined sleeve and stamped contact variations
- Provides maximum protection of crystal devices in severe shock and vibration environments
- Insulators offered in teflon and nylon materials
- Broad range of clip and contact materials
- Acts as additional heat sink to protect crystal against temperature variations

MATERIAL SPECIFICATIONS:

Insulators Teflon or blue nylon
Contacts Beryllium copper
Contact Plating Gold or tin
Holding Clips Beryllium copper alloy, cadmium plated with gold iridite

PERFORMANCE SPECIFICATIONS: 8000 SERIES

MECHANICAL

Vibration 10 to 2,000 Hz at 15 G's with crystal mounted,
no movement of crystal or damage assembly

ELECTRICAL

Bulk Resistance 15 Milliohms @ 30 millivolts
Capacitance to Ground
(Contact to Holding Clip) 5pF @ 1,000 Hz
Capacitance Between
Contacts 3pf @ 1,000 Hz
Dielectric Withstanding
Voltage 2,500 RMS @ sea level, 400 RMS @ 70,000 ft.

ENVIRONMENTAL

Temperature Range
(For Crystal Socket Only) -55°C to + 125°C
Salt Spray 5% for 48 hours, no breakdown of plating or damage to base metal

PERFORMANCE SPECIFICATIONS: 8004 SERIES

MECHANICAL

Vibration 10 to 2,000 Hz @ 15 G's

ELECTRICAL

Bulk Resistance 10 Milliohms
Capacitance to Ground
(Contact to Holding Clip) 8pF
Capacitance Between
Contacts 5 pF
Dielectric Withstanding
Voltage 2,500 RMS

ENVIRONMENTAL

Temperature Range
(For Crystal Socket Only) -55°C to + 125°C
Salt Spray 5% solutions for 48 hours

Crystal Socket Assemblies 8000-AG & 8004-1G Series

PART NUMBER / STANDARD CONFIGURATIONS

Accepts .017 (0,43) Diameter Leads Crystal Styles: HC-18 μ , HC-43 μ , HC-49 μ						
Socket Part Number	Figure	Description	Contact Material	Contact Design	Contact Plating	Insulation Material
8004-23G1	2	Printed circuit mount with anti-rotating tab	Beryllium Copper	Machined	Gold	Teflon
Accepts .040 (1,02) Diameter Leads Crystal Styles: HC-25 μ , HC-42 μ , HC-50 μ						
Socket Part Number	Figure	Description	Contact Material	Contact Design	Contact Plating	Insulation Material
8004-1G16	2	Printed circuit mount with anti-rotating tab	Beryllium Copper	Machined	Gold	Teflon
8004-1G4	1	Printed circuit mount with anti-rotating tab	Phosphor Bronze	Stamped		
8004-1G23	2	Printed circuit mount without anti-rotating tab	Beryllium Copper	Machined		
8004-1G1	1	Horizontal mount with anti-rotating tab	Phosphor Bronze	Stamped		
8004-1G2	1	Horizontal mount without anti-rotating tab				
8004-1G3	1	Printed circuit mount with anti-rotating tab				
8004-1G26	1	Horizontal mount without anti-rotating tab	Beryllium Copper			
Accepts .050 (1,27) Diameter Leads Crystal Styles: HC-6 μ , HC-13 μ , HC-14 μ , HC-27 μ , HC-36 μ , HC-48 μ						
Socket Part Number	Figure	Description	Contact Material	Contact Design	Contact Plating	Insulation Material
8000-AG1	3	Horizontal mount with anti-rotating tab	Phosphor Bronze	Stamped	Gold	Teflon
8000-AG2	3	Horizontal mount without anti-rotating tab				
8000-AG9	4	Printed circuit mount with anti-rotating tab				
8000-AG3	3					
8000-AG36	5				Tin	Nylon
8000-AG4	3	Printed circuit mount without anti-rotating tab			Gold	Teflon



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FIGURE 1



8004-1G4

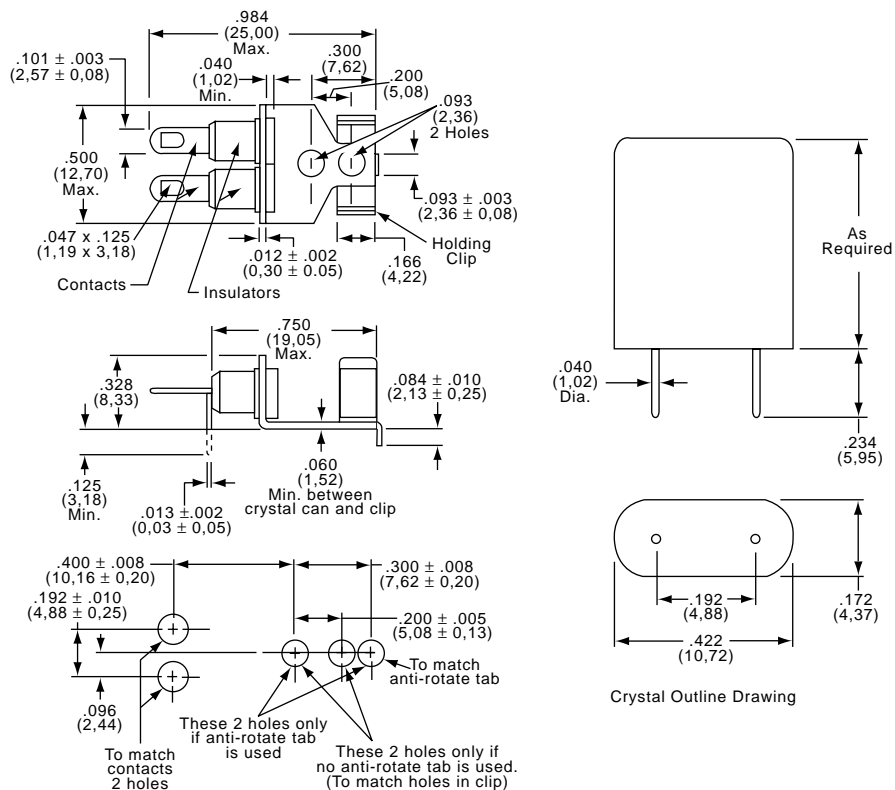
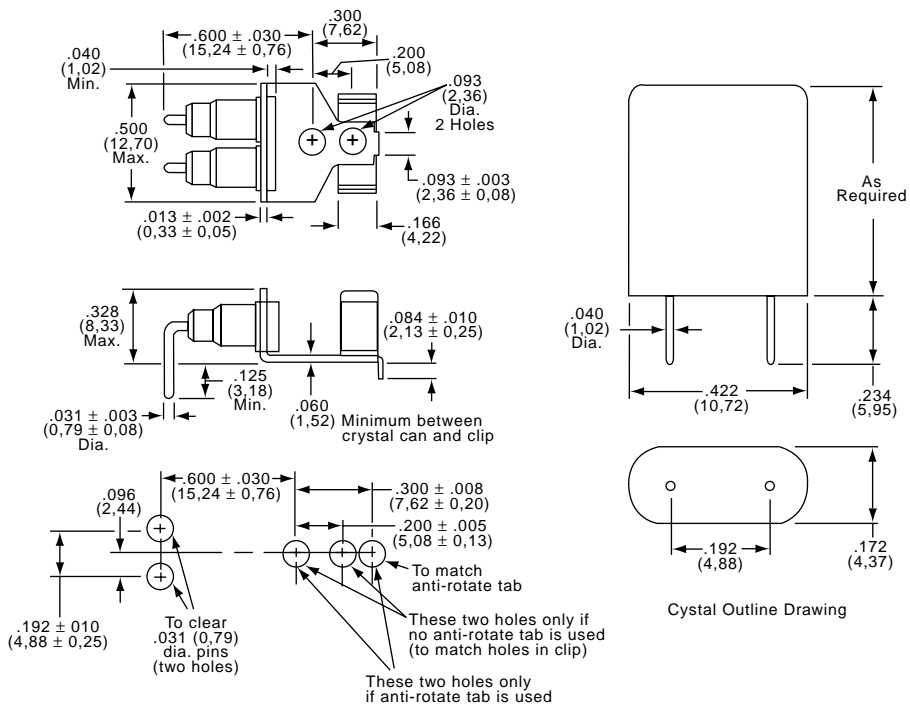


FIGURE 2

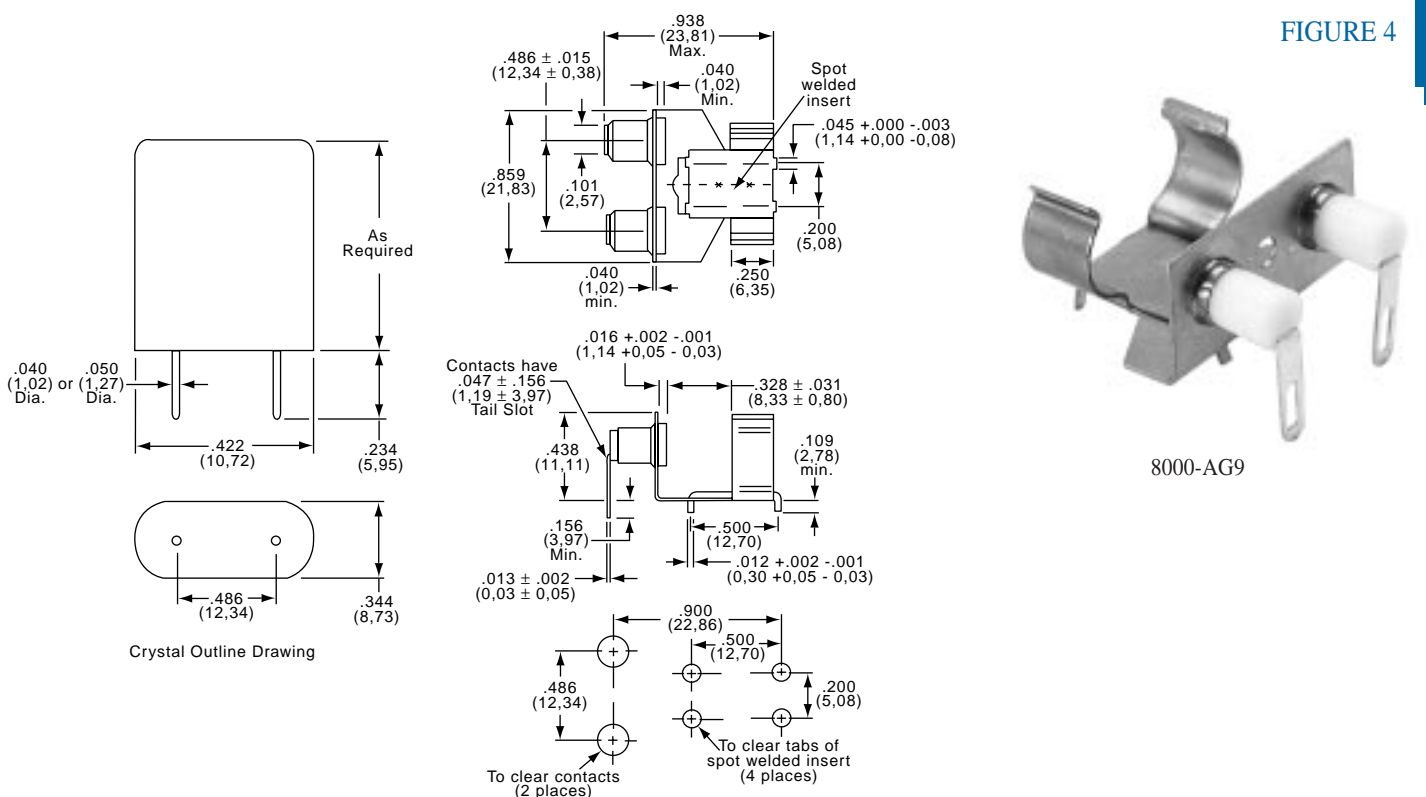
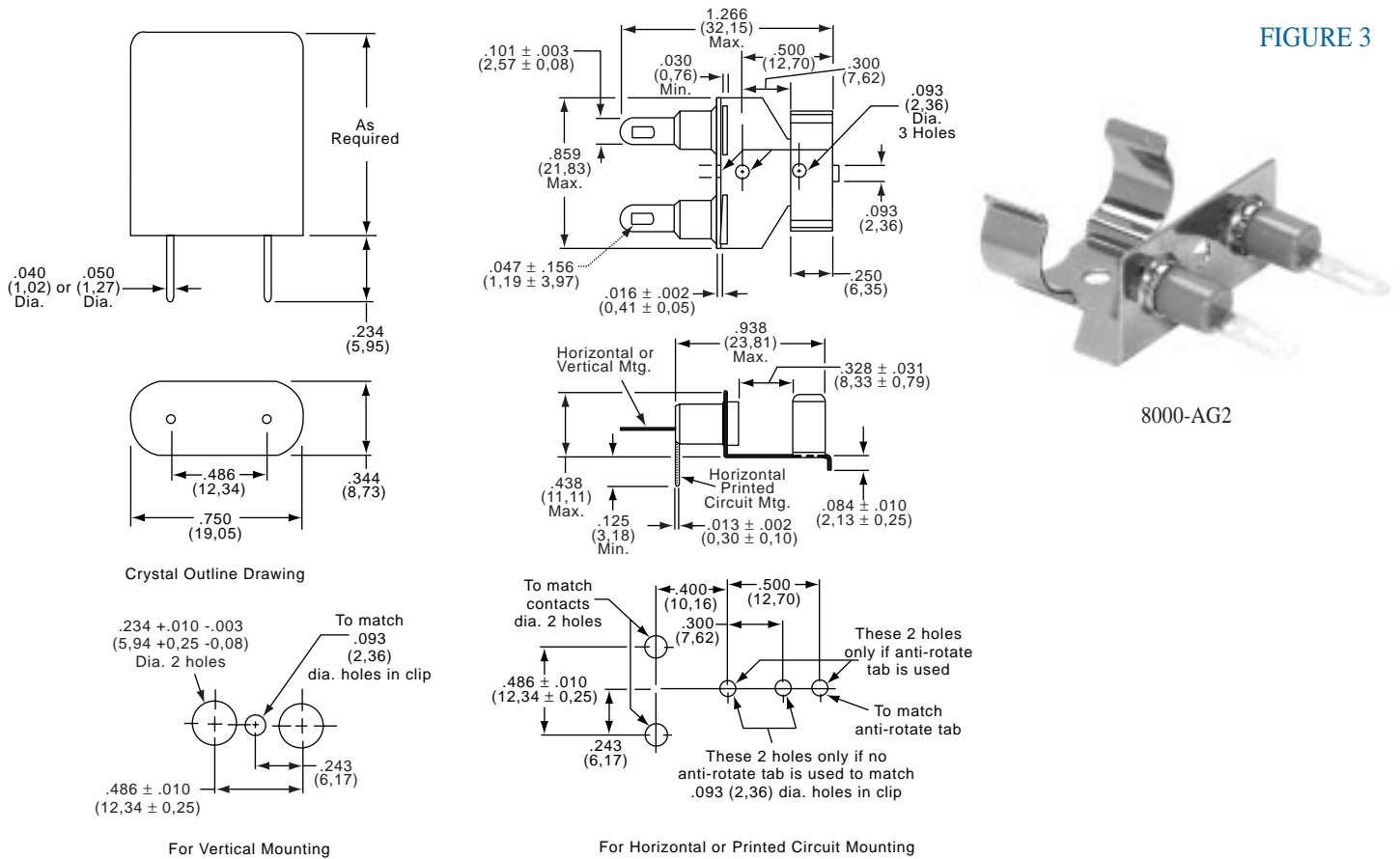
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8004-1G23



Crystal Socket Assemblies 8000-AG & 8004-1G Series



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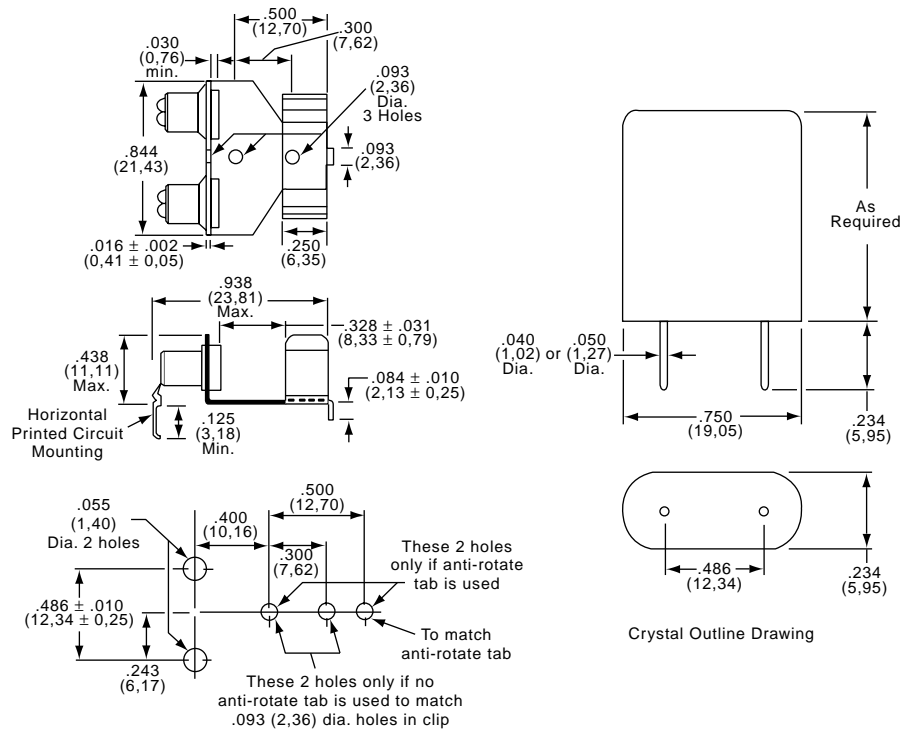
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FIGURE 5



8000-AG36



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PART NUMBERS

Military Part Number	Augat Part Number	Military Part Number	Augat Part Number	Military Part Number	Augat Part Number
*M39024/11-01G	M8041-15G9	*M39024/11-08G	M8041-15G2	*M39024/11-45G	M8041-15G7-1
*M39024/11-02G	M8041-15G4	*M39024/11-09G	M8041-15G10	*M39024/11-46G	M8041-15G5-1
*M39024/11-03G	M8041-15G6	*M39024/11-10G	M8041-15G11	*M39024/11-47G	M8041-15G8-1
*M39024/11-04G	M8041-15G3	*M39024/11-41G	M8041-15G9-1	*M39024/11-48G	M8041-15G2-1
*M39024/11-05G	M8041-15G7	*M39024/11-42G	M8041-15G4-1	*M39024/11-49G	M8041-15G10-1
*M39024/11-06G	M8041-15G5	*M39024/11-43G	M8041-15G6-1	*M39024/11-50G	M8041-15G11-1
*M39024/11-07G	M8041-15G8	*M39024/11-44G	M8041-15G3-1		



M8041-15G4-1

* Listed in MIL-STD-1353

PART NUMBERS

Military Part Number	To Type	Augat Part Number	Military Part Number	To Type	Augat Part Number	Military Part Number	To Type	Augat Part Number
*M83502/2-002	TO-5	M8058-1G23	*M83502/2-011	TO-5	M8058-1G39	*M83502/2-020	TO-5	M8058-1G22
*M83502/2-003	TO-5	M8058-45G1	*M83502/2-012	TO-5	M8058-1G18	*M83502/2-022	TO-5	M8058-1G91
*M83502/2-004	TO-5	M8058-1G29	*M83502/2-014	TO-5	M8058-1G32	*M83502/3-001	TO-8	M8058-1G1
*M83502/2-006	TO-5	M8058-1G24	*M83502/2-015	TO-5	M8058-1G37	*M83502/5-003	RO-52	M8058-43G1
*M83502/2-007	TO-5	M8058-45G2	*M83502/2-016	TO-5	M8058-1G19	*M83502/5-011	RO-52	M8058-1G33
*M83502/2-008	TO-5	M8058-1G30	*M83502/2-018	TO-5	M8058-1G31	*M83502/5-015	RO-52	M8058-1G18
*M83502/2-010	TO-5	M8058-1G33	*M83502/2-019	TO-5	M8058-1G38			



M8058-1G80

* Listed in MIL-STD-1353

PART NUMBERS

Military Part Number	Augat Part Number	Military Part Number	Augat Part Number
*M83505/6-001	M8134-HC-5P2	*M83505/6-003	M8134-HC-8P2
*M83505/6-002	M8134-HC-6P2	M83505/6-004	M8134-HC-12P2



M8134-HC-5P2

* Listed in MIL-STD-1353

PART NUMBERS

Military Part Number	Augat Part Number	Military Part Number	Augat Part Number
*M39024/18-01	M8046-6G11	*M39024/18-06	M8046-6G6
*M39024/18-02	M8046-6G2	*M39024/18-07	M8046-6G7
*M39024/18-03	M8046-6G3	*M39024/18-08	M8046-6G8
*M39024/18-04	M8046-6G4	*M39024/18-09	M8046-6G9
*M39024/18-05	M8046-6G5	*M39024/18-10	M8046-6G10



M8046-6G2

* Indicates part number is listed in MIL-STD 1355

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