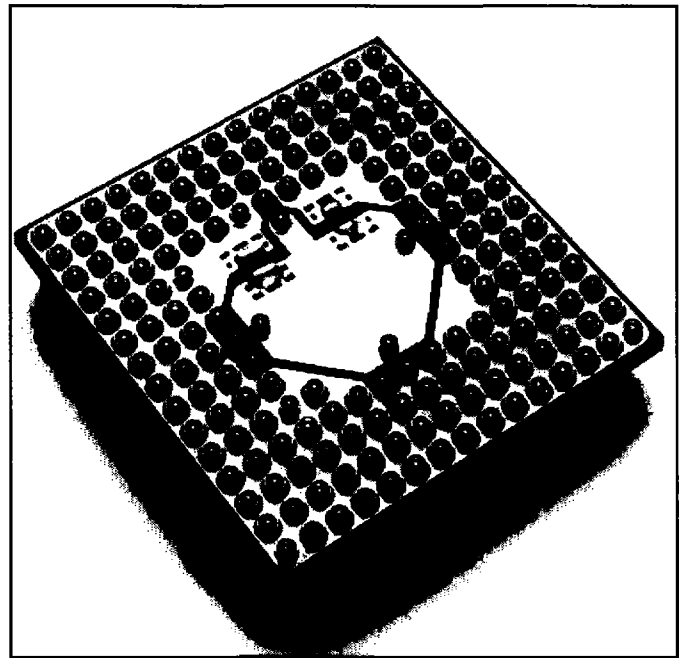


# PGD & PGU | Pin Grid Array Series | Decoupling Sockets

*Augat has combined its four fingered high reliability contacts with surface mount capacitors and circuit assembly to create a full line of dedicated and universal decoupling pin grid array sockets.*

*Augat's sockets offer several advantages:*

- Enhanced electrical performance of devices.
- Reduce utilization of PCB space.
- Allows handling, inventory and installation of one component instead of three.
- PGD Series parts are dedicated to accommodate specific devices.
- PGU Series parts have universal electrical designs which can accommodate a wide range of devices, consult factory.
- Custom designs available, consult factory.

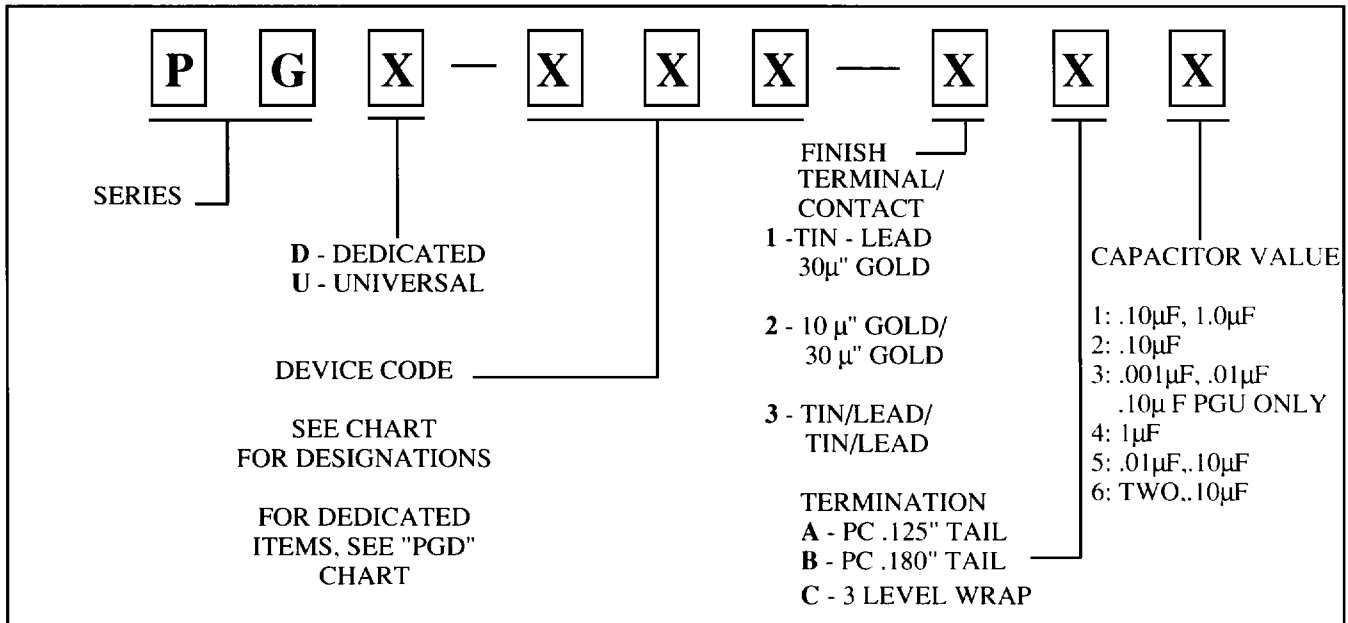


## TYPICAL PERFORMANCE CHARACTERISTICS

CONTACT RESISTANCE.....	3.1 milliohms
CONTACT RATING.....	3 Amps
CAPACITANCE (ADJACENT CONACTS - MAX.).....	1.0 pF per MIL-S-83734
MOISTURE RESISTANCE.....	Passed MIL-STD-202 Method 106E
VIBRATION.....	Passed MIL-S-83734
SHOCK.....	Passed MIL-S-83734
DURABILITY.....	Passes 50 Cycles
TEMPERATURE CYCLING.....	Passed MIL-S-83734
INSULATION RESISTANCE.....	2 X 10 <sup>6</sup> Megohms Per MIL-S-83734
OPERATION TEMPERATURE.....	-55°C to +120°C
INNER CONTACT RETENTION.....	7.5 Lbs. Pin Average
NORMAL FORCE.....	1.48 Oz. (42 grams) Average
SOLDERABILITY.....	Passed MIL-STD-202 method 208D
INSERTION FORCE .....	1.94 Oz. (55 grams) Average with a.018 Dia. Pin
WITHDRAWAL FORCE.....	1.66 Oz. (47 grams) Average with a.018 Dia. Pin

# PGD & PGU Series

## PART NUMBER EXAMPLE (PGD-001-1A1)



### PGD SERIES DEDICATED FOR SPECIFIC DEVICES

### PGU SERIES UNIVERSAL ELECTRICAL COMMITMENTS

Device	Augat P/N	Device	Augat P/N
Motorola MC68000	PGD-001-XXX	10 X 10	PGU-001-XXX
Motorola MC 68012	PGD-002-XXX	11 X 11	PGU-002-XXX
Motorola MC 68440	PGD-003-XXX	12 X 12	PGU-003-XXX
Motorola MC 68605	PGD-004-XXX	13 X 13	PGU-004-XXX
Intel 80386	PGD-005-XXX	14 X 14	PGU-005-XXX
Intel 80186	PGD-006-XXX	15 X 15	PGU-006-XXX
Intel 8096-90	PGD-007-XXX	16 X 16	PGU-007-XXX
Analog Devices ADSP-1016	PGD-008-XXX	17 X 17	PGU-008-XXX
Analog Devices ADSP-1024	PGD-009-XXX	18 X 18	PGU-009-XXX
Hitachi HD68000Y	PGD-010-XXX	19 X 19	PGU-010-XXX
Motorola MC68030	PGD-011-XXX	20 X 20	PGU-011-XXX

\* PGU Series can be programmed using Augat solder kit, Part Number: Kit-2 See Page F 42

### MATERIAL SPECIFICATIONS

INSULATOR .....	Glass Epoxy, Circuit Fabricated to meet MIL-P-55110
INNER CONTACT .....	Beryllium Copper 30μ" Gold over Nickel or Tin/Lead Plated
OUTER SLEEVE .....	Brass, Tin/Lead or 10μ" Gold Plated

### APPLICATION DIMENSIONS

- PCB Hole Size Range:  
 .035" ± .003" Solder Termination  
 .055" ± .0015" Solderless Wrap
- IC Pin Dimension Range:  
 .016" to .021" Diameter  
 .105" minimum length