

Posistor® For Circuit Protection

1. Part Numbering (Part Number)

PT	GL	07	AR	330	M	6A51	B0
Product ID	Series	Dimensions	Temperature Characteristics	Resistance	Resistance Tolerance	Individual Specifications	Packaging

2. Ratings

Part Number	Temperature characteristic	*1 Resistance Value at +25°C	Max. voltage	*2 Max. Current	*3 Hold current at +60°C	*4 Trip current at -10°C	Dimensions (mm)		
							D	F	d
PTGL07AR330M6A51B0	AR	33 ohm±20%	AC140 Vrms.	0.5Arms.	100mA	230mA	7.4	5.0	0.5
PTGL09AR220M6C61B0		22 ohm±20%		1.0Arms.	140mA	330mA	9.6	6.5	0.65
PTGL10AR220M6C61B0		15 ohm±20%		1.0Arms.	170mA	490mA	11.6	6.5	0.65
PTGL12AR100M6C01B0		10 ohm±20%		1.0Arms.	220mA	510mA	13.0	10.0	0.65
PTGL13AR6R8M6C01B0		6.8 ohm±20%		1.0Arms.	290mA	670mA	14.0	10.0	0.65
PTGL16AR5R6M6C01B0		5.6 ohm±20%		2.0Arms.	340mA	780mA	17.0	10.0	0.65

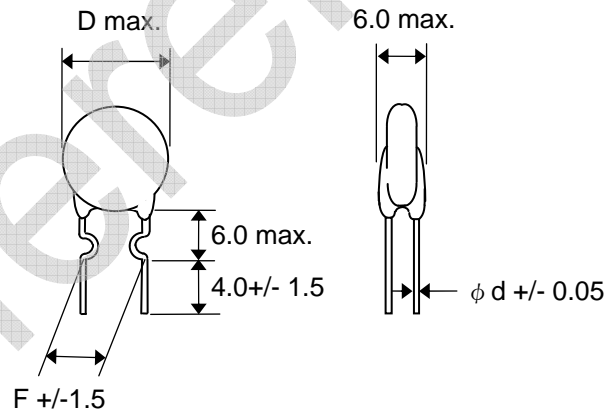
*1 The resist. value is measured at a point of max. 2mm from the end of lead crimp.

*2 Shows the maximum current value which may be repeatedly introduced into Posistor when the circuit runs abnormally.

*3 Shows the maximum current value which be repeatedly introduced into Posistor when the circuit runs normally at 60°C.

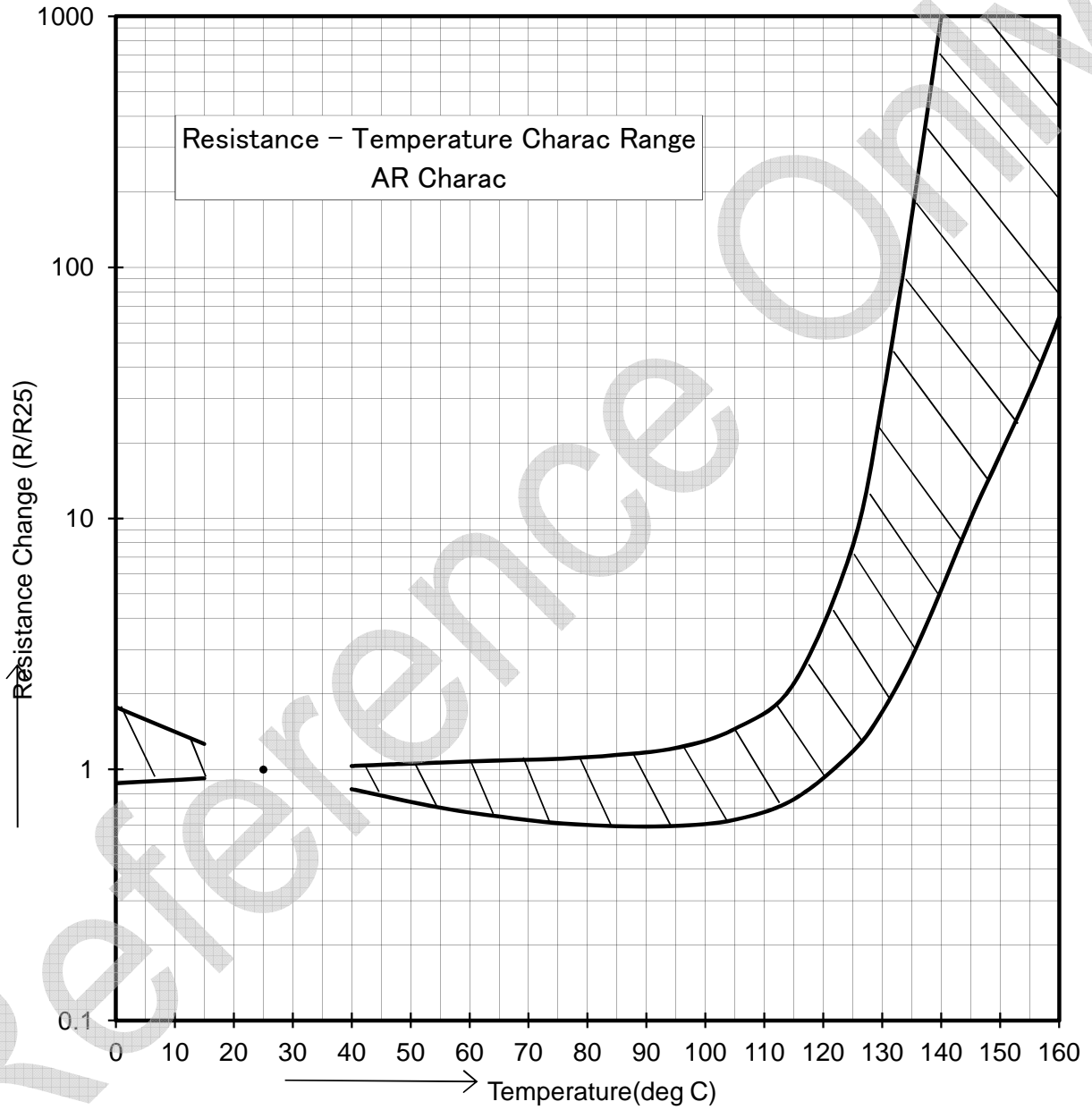
*4 Shows the minimum current value which flows the circuit when Posistor protects it from over load at -10°C.

3. Dimensions(mm)



Note)

Some part of resin covering lead wire of Posistor may come off by some outside shock on the root of lead wire, but Posistor can be used normally for electrical and reliability characteristics.



AR-030'

Notice for use

Caution

1. This product is designed for application which is used under ordinary environment.(room temperature, normal humidity, normal pressure) Do not expose this to the following environments, because all these factor can deteriorate the characteristic of this and can cause failure or burn out.
 - (1) Corrosive gas or deoxidizing gas (Cl₂, H₂S, NH₃, SO_x, NO_x etc.)
 - (2) Volatile, flammable gas
 - (3) Dusty place
 - (4) Place in a vacuum, reducing or putting pressure
 - (5) Place in splashed water, or high humidity and dewing place
 - (6) Salt water, oil, chemical liquid and solvent
 - (7) Vibratile place
 - (8) Other place equivalent to the above
2. Limitation of Applications
 Please contact us before using our products for the under-mentioned applications requiring especially high reliability in order to prevent defects which might directly cause damage to other party's life body or property(listed below).
 - (1)Aircraft equipment (2)Aerospace equipment (3)Undersea equipment (4)Power plant control equipment
 - (5)Medical equipment (6)Transportation equipment(automobiles, trains, ships, etc.)
 - (7)Traffic signal equipment (8)Disaster prevention / Crime prevention equipment
 - (9)Data-processing equipment (10)Applications of similar complexity or with reliability requirements comparable to the applications listed in the above.
3. Be sure to provide an appropriate fail-safe function on your product to prevent a second damage that may be caused by the abnormal function or the failure of our product.

Notice

1. Do not apply abnormal voltage/current exceeding the specified maximum value. Because they may deteriorate or destroy PTC element.
2. Use this product within the specified temperature. A higher temperature may deteriorate the characteristic or material.
3. When this product is operated, temperature of some area may be over 100°C to 160°C. Please make sure that surrounding parts and inserting material can withstand the temperature. If the surrounding part and material is kept under such condition, they may be deteriorated or may produce harmful gas(Cl₂, H₂S, NH₃, SO_x, NO_x etc.). And, such harmful gas may deteriorate the element.
4. The resin coating of this product is not for insulating purpose. Keep an adequate insulating distance to surrounding components.
5. This product does not have waterproof construction. A splashed water may cause failure mode such as deterioration of characteristic or current leak.
 So, Do NOT apply cleaning to immerse it into water or any solvent.
6. If you coat this product by resin, please evaluate the quality of this product before you use it.
 The stress of force which is caused by coating materials or heat cycles may cause failure mode such as deterioration of characteristic or current leak in worst case.
7. This product is using the solder of 221+/-5 °C of melting points, in order to connect ceramics with a lead wire. Do not heat up a terminal area of this product over 180 °C.
8. The ceramic element of this product is fragile, and care must be taken not to load a excessive pressforce or not to give a shock at handling. Such forces may cause cracking or chipping.

9. Do not apply an excessive force to the lead. Otherwise, it may cause break off the junction between lead and element, or may crack element. Therefore, hold of element side lead wire is recommended when lead wire is bent or cut.
10. When the lead of this product is soldered, pay attention as follows to avoid the decline of element characteristic or break down the element.
 - (1) Use Rosin type flux or non-activated flux(the content of chlorine shall be less than 0.2%)
 - (2) Do not dip the body into flux. (Flux shall be coated to lead wire only for soldering.)
 - (3) The pre-heat up should be conducted without melting the soldering of this product.
11. Do not apply tensile force or separating force to lead wire at soldering.
12. Do not touch the resin case by soldering iron. The soldering point shall be min. 5 mm away from the root of lead wire. Please solder the following conditions.
 - Iron Tip Temperature : 360 degree C max.
 - Soldering Time : 4 seconds max. / 1 terminal
 - Number of Soldering : 1
13. To keep solderability of product from declining, following storage condition is recommended.
 - (1) Storage condition Temperature : -10 to +40°C
Humidity : less than 75%RH(not dewing condition)
 - (2) Term : Please use this product within 6 months after shipment by first-in and first-out stocking system.
 - (3) Handling after unpacking of the minimum package : Reseal it promptly or store it seal open inside a sealed container with a drying agent.
 - (4) Place : Do not store this product in corrosive gas(SO_x, Cl etc) or under sun-light.