



|             |                   |          |           |           |  |
|-------------|-------------------|----------|-----------|-----------|--|
| Product NO. | RHT-MS3106A20-27P |          |           |           |  |
| REV         | DESCRIPTION       | DWN      | DATE      | APPROVEN  |  |
| A           | First issue       | Mr. Wang | 2018/6/13 | John Kine |  |

Insert Arrangement      20-27  
 Service Rating            A  
 Number of Contacts      14  
 Contact Size                16

**Materials:**

Shell: Aluminum alloy, Olive drab chromate

Contact: brass with silver plated

Insulator: Synthetic Rubber

**Tech data:**

Ambient Temperature Range: -55°C-+125°C

Frequency: 10-2000Hz/147m/s<sup>2</sup>

Shock: 490 m/s<sup>2</sup>

Durability: ≥500 times

Relative humidity: 95±4% at 40°C

Insulation resistance: ≥5000MΩ

Withstanding voltage: 2000V

**Electrical data**

| Contact size | Pin contact Diam, | Solder Pot Diam, | Rated Current (Mated with insulators) | Contact resistance |                        |
|--------------|-------------------|------------------|---------------------------------------|--------------------|------------------------|
|              |                   |                  |                                       | Test current DC A  | Potential Drop(Max) mV |
| #16          | 1.6               | 1.9              | 13A                                   | 13A                | 49                     |
| #12          | 2.4               | 3.0              | 23A                                   | 23A                | 42                     |
| #8           | 3.6               | 5.4              | 46A                                   | 46A                | 26                     |
| #4           | 5.7               | 8.4              | 80A                                   | 80A                | 23                     |
| #0           | 9.1               | 12.2             | 150A                                  | 150A               | 21                     |

**Wire range accommodations**

| Size | A.W.G   | Wire normal square size(mm <sup>2</sup> ) | Dielectric material outer diam. |
|------|---------|---|---------------------------------|
| #16  | #22-#16 | ≤1.3                                      | 1.7-3.3                         |
| #12  | #14-#12 | ≤3.5                                      | 2.9-4.3                         |
| #8   | #10-#8  | ≤8.0                                      | 4.2-6.4                         |
| #4   | #6-#4   | ≤22.0                                     | 7.0-9.4                         |
| #0   | #2-#0   | ≤50.0                                     | 10.6-14.0                       |

|           |                  |           |                |
|-----------|------------------|-----------|----------------|
| NOTE:     |                  | Tolerance | 0-6      ±0.10 |
| DRAWN     | 2018/6/13        |           | 6-30     ±0.20 |
| CHECKED   | 2018/6/13        | View      | 30-120 ±0.30   |
| APPROVALS | <i>John Kine</i> | UNIT      | Angular ±2°    |
|           |                  | SCALE     | MM             |
|           |                  |           | 1:1            |



**RENHOTEC GROUP**

|   |                                |               |  |
|---|--------------------------------|---------------|--|
| Name: Military Spec MS3106A 20-27P 14Pin Male Connector I E |                                |               |  |
| SIZE A  | Product NO. RHT-MS3106A20-27P  | REV B         |  |
| DateTime 2018/6/13  | CAD FILE D/company drawings/BD | SHEET: 1 OF 1 |  |