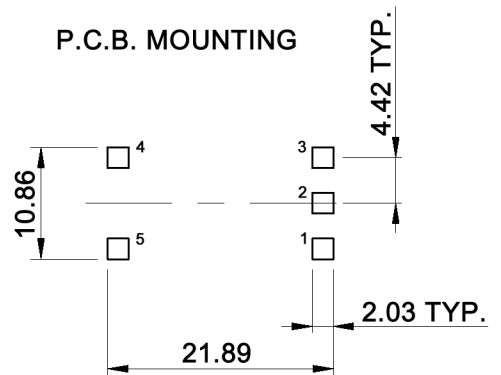


SWITCH FUNCTION

| Model No.   | POS. 1 | POS. 2 |
|-------------|--------|--------|
|             |        |        |
| MPLS 12     | ON     | ON     |
| Term. Conn. | 3-4    | 2-3    |
| LED         | 5  1   |        |

P.C.B. MOUNTING



| x | Switch function | y  | LED color     |
|---|-----------------|----|---------------|
| D | on - on         | w  | white         |
| F | on - mom        | y  | yellow        |
|   |                 | r  | red           |
|   |                 | g  | green         |
|   |                 | b  | blue          |
|   |                 | ag | amber / green |
|   |                 | rg | red / green   |

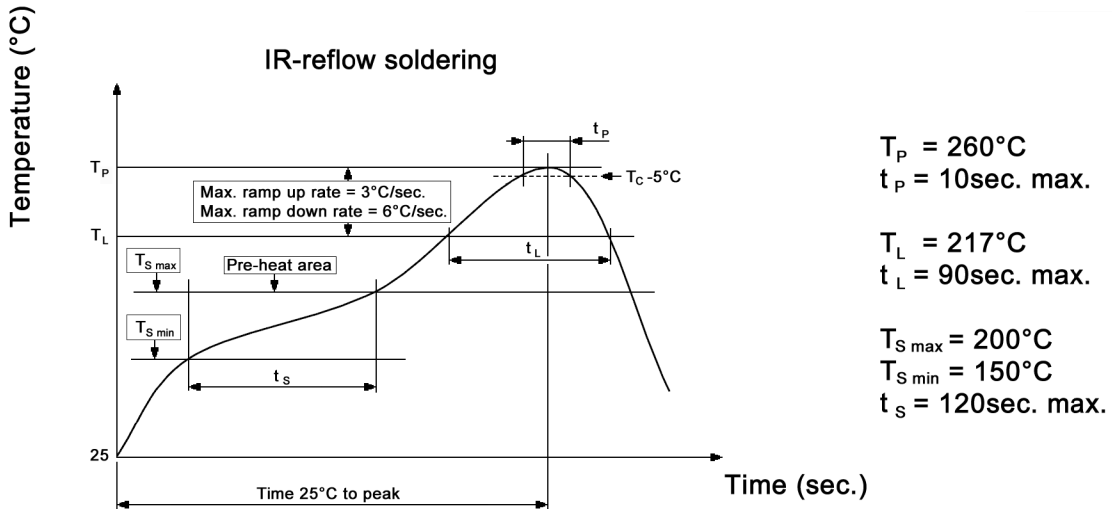


|   |       |       |                       |                     |      |
|---|-------|-------|-----------------------|---------------------|------|
| Tolerances: 0.00: ±0.13mm<br>0.0: ±0.40mm |       | Date  | Name                  | <h1>MPLS 12 xy</h1> |      |
|   |       | 12/08 | dr                    |                     |      |
|   |       |       |                       |                     |      |
|   |       |       |                       |                     |      |
| LED colors                                | 08/11 | dr    | <b>knitter-switch</b> | <h1>30 16 81</h1>   |      |
| Soldering conditions                      | 09/10 | dr    |                       |                     | Page |
| LED color                                 | 06/09 | dr    |                       |                     | 1/2  |
| Modifications                             | Date  | Name  |                       |                     |      |

**Specifications:**

**Contact rating:** min. 20mV, max. 50V DC  
**Switching current:** min. 0.01mA, max. 250mA  
**Switching power:** max. 3.5VA  
**Contact resistance:** 50mOhm max. at 2-4V DC, 100mA  
**Insulation resistance:** 1 000MOhm min.  
**Dielectric strength:** 250V RMS  
**Operating temperature:** -30°C to +85°C  
**Mechanical life:** 30 000 make-and-break cycles  
**Operating force:** 250 +/-100gf  
**Material:** Case / actuator: glass filled LCP (UL94V-0)  
 Housing: stainless steel  
 Contact / terminal: copper alloy, silver plated with gold flash

**Soldering conditions:**



**LED CHARACTERISTICS:**

| Lens Appearance | Color         | Electro-optical Data(AT 20mA) |      |          |       | Peak wavelength | Viewing Angle 2θ 1/2 (deg) |     |
|-----------------|---------------|-------------------------------|------|----------|-------|-----------------|----------------------------|-----|
|                 |               | Vf (V)                        |      | Iv (mcd) |       |                 |                            |     |
|                 |               | Typ.                          | Max. | Min..    | Typ.  |                 |                            |     |
| Water Clear     | White         | 3.3                           | 3.8  | 4900     | 10000 | —               | 30°                        |     |
|                 | Red           | 2.35                          | 2.8  | 1        | 3     | 630             | 50°                        |     |
|                 | Yellow        | 2.1                           | 2.6  | 20       | 35    | 588             | 65°                        |     |
|                 | Green         | 2.2                           | 2.6  | 50       | 60    | 570             | 60°                        |     |
|                 | Blue          | 3.5                           | 3.8  | 210      | 550   | 470             | 75°                        |     |
|                 | Amber (Green) | A                             | 2.1  | 2.5      | 19    | 28              | 588                        | 55° |
|                 |               | G                             | 2.2  | 2.6      | 9     | 19              | 570                        | 50° |
|                 | Red (Green)   | R                             | 2.35 | 2.8      | —     | 1               | 630                        |     |
| G               |               | 2.2                           | 2.6  | 6        | 13    | 570             |                            |     |



|   |       |      |
|---|-------|------|
| Tolerances: 0.00: ±0.13mm<br>0.0: ±0.40mm | Date  | Name |
|   | 09/10 | dr   |
|   |       |      |
|   |       |      |
|   |       |      |
|   |       |      |
|   |       |      |
|   |       |      |
|   |       |      |
| Modifications                             | Date  | Name |

**MPLS 12 xy**

**knitter-switch**

**30 16 81**