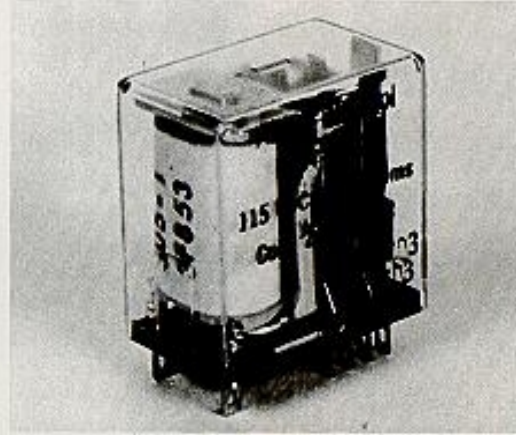


**DC Cradle Relays****T154/TF154/T163/TY154 (up to 4 form C)—  
Standard DC Voltage Adjustment**

| COIL RESISTANCE at 25°C ± 10% (Ohms)   |                                    |                                   | VDC at 25°C   |         |                |
|----------------------------------------|------------------------------------|-----------------------------------|---------------|---------|----------------|
| 2 and 4 Form A, B, C, D Pick-up 500 mw | 6 Form A, B, C or D Pick-up 850 mw | 8 Form A, B, or C Pick-up 1000 mw | Pick-up (Max) | Nominal | Max Continuous |
| 10                                     | 6                                  | 6                                 | 2.25          | 3.0     | 2.2W Coil Disp |
| 52                                     | 25                                 | 20                                | 4.5           | 6.0     |                |
| 185                                    | 90                                 | 75                                | 9.0           | 12.0    |                |
| 700                                    | 430                                | 430                               | 18.0          | 24.0    |                |
| 2500                                   | 1550                               | 1275                              | 36.0          | 48.0    |                |
| 15,000                                 | 9000                               | 9000                              | 86.0          | 115.0   |                |

**TS154/TSF154/TS163—Sensitive DC Voltage Adjustment**

| COIL RESISTANCE at 25°C ± 10% (Ohms)   |                                  |                                    |                                    | VDC at 25°C    |         |                 |
|----------------------------------------|----------------------------------|------------------------------------|------------------------------------|----------------|---------|-----------------|
| 1 and 2 Form A, B, C, D Pick-up 100 mw | 4 Form A, B, C, D Pick-up 175 mw | 6 Form A, B, C or D Pick-up 250 mw | 8 Form A, B, C or D Pick-up 400 mw | Pick-up (Max.) | Nominal | Max. Cont.      |
| 52                                     | 30                               | 20                                 | 12                                 | 2.25           | 3.0     | 2.2W Coil Disp. |
| 185                                    | 110                              | 75                                 | 52                                 | 4.5            | 6.0     |                 |
| 800                                    | 430                              | 350                                | 190                                | 9.0            | 12.0    |                 |
| 3200                                   | 1800                             | 1275                               | 800                                | 18.0           | 24.0    |                 |
| 13,000                                 | 7500                             | 5200                               | 3200                               | 36.0           | 48.0    |                 |

**TS154/TSF154/TS163—Sensitive DC Current Adjustment**

| MAXIMUM PICK-UP CURRENT (mA)  |                                 |                                    |                                    |                                    |                        |
|-------------------------------|---------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------|
| Coil Resistance at 25°C ± 10% | 2 Form A, B, C, D Pick-up 85 mw | 4 Form A, B, C or D Pick-up 175 mw | 6 Form A, B, C or D Pick-up 250 mw | 8 Form A, B, C or D Pick-up 400 mw | Max. Coil Current (mA) |
| 1000                          | 8.5                             | 13.0                               | 16.0                               | 20.0                               | 45.0                   |
| 2500                          | 5.8                             | 8.4                                | 10.0                               | 13.0                               | 28.0                   |
| 5000                          | 4.1                             | 6.2                                | 7.2                                | 9.0                                | 20.0                   |
| 10,000                        | 3.1                             | 4.5                                | 5.0                                | 6.4                                | 14.0                   |
| 15,000                        | 2.6                             | 3.5                                | 4.2                                | 5.3                                | 11.5                   |

**TSS154/TSS163—Ultra-sensitive Voltage Adjustment**

| COIL RESISTANCE at 25°C ± 10% (Ohms) |                                 |                                       |                    |             | VDC at 25°C |  |
|--------------------------------------|---------------------------------|---------------------------------------|--------------------|-------------|-------------|--|
| 1 Form A, B, C, D Pick-up 20 mw      | 2 Form A, B, C, D Pick-up 40 mw | 3 and 4 Form A, B, C, D Pick-up 80 mw | Pick-up (Max.) VDC | Nominal VDC | Max. Cont.  |  |
| 220                                  | 110                             | 52                                    | 2.25               | 3           | 2.2W 25°C   |  |
| 1000                                 | 500                             | 250                                   | 4.5                | 6           |             |  |
| 4000                                 | 2000                            | 1000                                  | 9.0                | 12          |             |  |
| 9000                                 | 4500                            | 2200                                  | 13.5               | 18          |             |  |
| 15,000                               | 7500                            | 3700                                  | 18.0               | 24          |             |  |

**TSS154/TSS163—Ultra-sensitive Current Adjustment**

| Coil Resistance at 25°C ± 10% | MAXIMUM PICK-UP CURRENT (mA)    |                                 |                                 |                                 | Max. Cont. Coil Current (mA) |
|-------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------|
|                               | 1 Form A, B, C, D Pick-up 20 mw | 2 Form A, B, C, D Pick-up 40 mw | 3 Form A, B, C, D Pick-up 80 mw | 4 Form A, B, C, D Pick-up 80 mw |                              |
| 1000                          | 4.5                             | 6.5                             | 9.0                             | 9.0                             | 45.0                         |
| 2500                          | 2.9                             | 4.1                             | 5.8                             | 5.8                             | 28.0                         |
| 5000                          | 2.1                             | 2.9                             | 4.1                             | 4.1                             | 20.0                         |
| 10,000                        | 1.5                             | 2.0                             | 3.0                             | 3.0                             | 14.0                         |
| 15,000                        | 1.2                             | 1.7                             | 2.4                             | 2.4                             | 11.5                         |

**Ordering Information**

☐ T ☐ I ☐ II ☐ III ☐ IV ☐ V ☐ VI VDC

**i. Immersion Sealing**

For immersion sealed relays add prefix S.

**I. Type**

Standard—No designation necessary  
Sensitive—Insert letter S  
Ultra-sensitive—Insert letter SS

**II. Contact Rating**

Low level to 2 ampere—No designation necessary  
5 ampere—Insert letter F<sup>1</sup>  
10 ampere—Insert letter Y<sup>2</sup>

**III. Terminal Type and Mounting**

Single stud—Insert letter V  
Tapped holes in top—Insert letter W  
Solder/plug-in—No designation necessary

Printed circuit—Insert letter P

**III A. Light Option**

For light option—Insert letter L  
(UL recognition pending)

**IV. Contact Type**

Single contacts—Insert code 154  
Bifurcated contacts—Insert code 163  
Cross-bar bifurcated,  
gold-platinum-silver alloy (WE #1)  
contacts—Insert code K163

**V. Contact Configuration**

DPDT or 2 form C or C-C—Insert 2C  
4 PDT or 4 form C or  
CC-CC—Insert 4C  
6 PDT or 6 form C or  
CCC-CCC—Insert 6C  
8 PDT or 8 form C or  
CCCC-CCCC—Insert 8C

**VI. Nominal Coil Voltage (VDC) or  
Maximum Operate Current  
(mADC)**

Select one from coil data table

**Example #1**

T154-2C-24VDC  
(T relay, 2 amp contacts rating,  
2 form C, 24VDC coil)

**Example #2**

TSFP154-2C-24VDC  
(T relay, sensitive adjust, 5 ampere  
contacts rating, printed circuit terminals,  
2 form C, 24VDC coil)

Note: For mating sockets, see page 8.

<sup>1</sup> Not available with SS adjustments.  
TF163 UL recognition pending.

<sup>2</sup> Not available in bifurcated contacts or  
with S or SS adjustments.  
UL recognition pending.