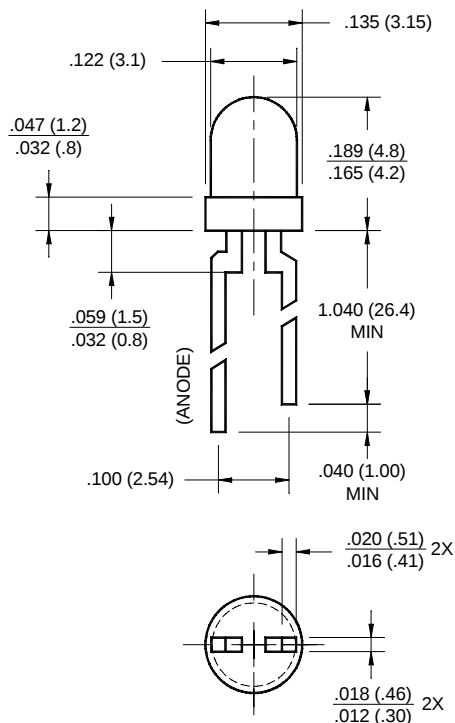


HER  
YELLOW  
GREEN

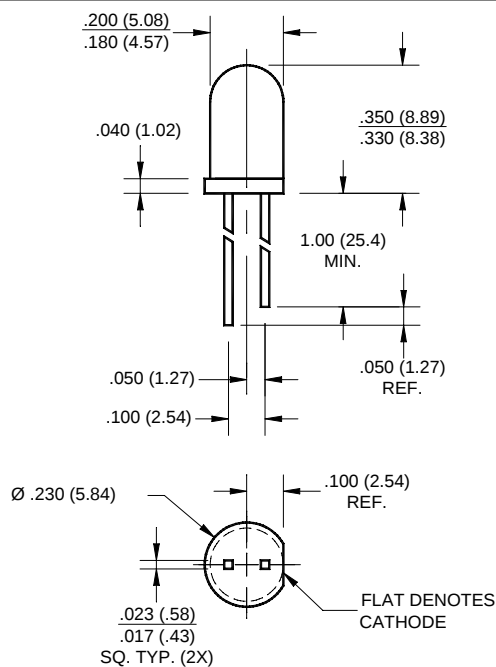
HLMP-1700  
HLMP-1719  
HLMP-1790

HLMP-4700  
HLMP-4719  
HLMP-4740 (MV2454)

## PACKAGE DIMENSIONS



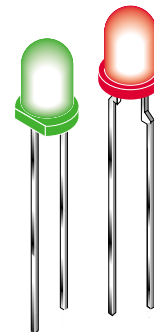
**HLMP-17XX**



**HLMP-47XX**

## FEATURES

- Low power consumption ( low current drive at 2mA)
- Solid state reliability
- Tinted and diffused



## DESCRIPTION

The T-1 3/4 HLMP-47XX series and T-100 HLMP-17XX series are tinted diffused, providing a moderate viewing angle. These parts are optimized for low current and are brighter than the standard LED lamps operated at very low current.

## NOTES:

1. ALL DIMENSIONS ARE IN INCHES (mm).
2. TOLERANCE ARE  $\pm .010"$  UNLESS OTHERWISE SPECIFIED.
3. AN EPOXY MENISCUS MAY EXTEND ABOUT .040"(1 mm) DOWN THE LEADS.

**ABSOLUTE MAXIMUM RATING** ( $T_A = 25^\circ\text{C}$ )

| Parameter                                                                           | HER         | YELLOW      | GREEN       | UNITS                  |
|-------------------------------------------------------------------------------------|-------------|-------------|-------------|------------------------|
| Power Dissipation (derated from $92^\circ\text{C}$ at $1\text{mA}/^\circ\text{C}$ ) | 27          | 24          | 27          | mW                     |
| Peak Forward Current ( $PW \leq 1\text{ ms}$ , $DF \leq 30\%$ )                     | 25          | 20          | 25          | mA                     |
| Continuous Forward Current                                                          | 7.5         | 7.5         | 7.5         | mA                     |
| Lead Soldering Time at $260^\circ\text{C}$                                          | 5           | 5           | 5           | sec                    |
| Reverse Breakdown Voltage (V)                                                       | 5           | 5           | 5           | $I_R = 100\mu\text{A}$ |
| Operating Temperature                                                               | -55 to +100 | -55 to +100 | -55 to +100 | $^\circ\text{C}$       |
| Storage Temperature                                                                 | -55 to +100 | -55 to +100 | -55 to +100 | $^\circ\text{C}$       |

**ELECTRICAL / OPTICAL CHARACTERISTICS** ( $T_A = 25^\circ\text{C}$ )

| Parameter                  | HER<br>HLMP-1700/4700 | YELLOW<br>HLMP-1719/4719 | GREEN<br>HLMP-1790/4740<br>(MV2454) | Condition          |
|----------------------------|-----------------------|--------------------------|-------------------------------------|--------------------|
| Luminous Intensity (mcd)   |                       |                          |                                     | $I_F = 2\text{mA}$ |
| Minimum                    | 1.0/1.2               | 1.0/1.2                  | 1.0/1.2                             |                    |
| Typical                    | 2.0/2.0               | 2.0/2.0                  | 2.0/3.0                             |                    |
| Forward Voltage (V)        |                       |                          |                                     | $I_F = 2\text{mA}$ |
| Maximum                    | 2.2                   | 2.7                      | 2.7                                 |                    |
| Typical                    | 1.8                   | 1.9                      | 1.9                                 |                    |
| Peak Wavelength (nm)       | 635                   | 585                      | 565                                 | $I_F = 2\text{mA}$ |
| Spectral Line Half Width   | 45                    | 35                       | 30                                  | $I_F = 2\text{mA}$ |
| Viewing Angle ( $^\circ$ ) | 50/35                 | 50/35                    | 50/35                               | $I_F = 2\text{mA}$ |

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2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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HLMP-1700

High Efficiency Red Right Angle T-100 (3 mm) Diffused

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General description

The T-1 3/4 HLMP-47XX series and T-100 HLMP-17XX series are tinted diffused, providing a moderate viewing angle. These parts are optimized for low current and are brighter than the standard LED lamps operated at very low current.

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Testing conditions

- V<sub>F</sub> @ I<sub>F</sub> = 2 mA; I<sub>V</sub> @ I<sub>F</sub> = 2 mA

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| Product         | Product status  | Pricing* | Inventory check & ordering | Package type       | Packing method |
|-----------------|-----------------|----------|----------------------------|--------------------|----------------|
| HLMP-1700.C1R0  | Full Production | N/A      | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1700.C3A0  | Full Production | N/A      | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1700.D4A0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1700.D4R1  | Full Production | N/A      | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1700.D6R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1700.MP4B  | Full Production | \$0.141  | <a href="#">Purchase</a>   | T-100, Right Angle | BOX            |
| HLMP-1700       | Full Production | \$0.051  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1700.C1A0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1700.D4R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1700.C6R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1700.MP4BS | Full Production | N/A      | <a href="#">Purchase</a>   | T-100, Right Angle | BOX            |
| HLMP-1700.C6A0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1700.C5A0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1700.C4A0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1700.C4R2  | Full Production | N/A      | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1700.C3R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1700.C2R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1700.C4R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1700.MP4A  | Full Production | \$0.141  | <a href="#">Purchase</a>   | T-100, Right Angle | BOX            |
| HLMP-1700.C5R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |

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HLMP-1719  
Yellow Right Angle T-100 (3 mm) Diffused

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Features

- Low power consumption (low current drive at 2 mA)
- Solid state reliability
- Tinted and diffused

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Testing conditions

- $V_F @ I_F = 2 \text{ mA}$ ;  $I_V @ I_F = 2 \text{ mA}$

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Product status/pricing/packaging

| Product         | Product status  | Pricing* | Inventory check & ordering | Package type       | Packing method |
|-----------------|-----------------|----------|----------------------------|--------------------|----------------|
| HLMP-1719       | Full Production | \$0.051  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1719.C3A0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1719.D4A0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1719.C6R1  | Full Production | N/A      | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1719.C6A0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1719.MP4B  | Full Production | \$0.141  | <a href="#">Purchase</a>   | T-100, Right Angle | BOX            |
| HLMP-1719.C4R0  | Full Production | N/A      | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1719.C2R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1719.C5A0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1719.C6R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1719.MP4BS | Full Production | N/A      | <a href="#">Purchase</a>   | T-100, Right Angle | BOX            |
| HLMP-1719.MP4A  | Full Production | \$0.141  | <a href="#">Purchase</a>   | T-100, Right Angle | BOX            |

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HLMP-1790

Green Right Angle T-100 (3 mm) Diffused

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General description

The T-1 3/4 HLMP-47XX series and T-100 HLMP-17XX series are tinted diffused, providing a moderate viewing angle. These parts are optimized for low current and are brighter than the standard LED lamps operated at very low current.

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Features

- Low power consumption (low current drive at 2 mA)
- Solid state reliability
- Tinted and diffused

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Testing conditions

- $V_F @ I_F = 2 \text{ mA}$ ;  $I_V @ I_F = 2 \text{ mA}$

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| Product         | Product status  | Pricing* | Inventory check & ordering | Package type       | Packing method |
|-----------------|-----------------|----------|----------------------------|--------------------|----------------|
| HLMP-1790.C1A0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1790.C3A0  | Full Production | N/A      | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1790.C4R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1790.MP4A  | Full Production | \$0.141  | <a href="#">Purchase</a>   | T-100, Right Angle | BOX            |
| HLMP-1790.C6R1  | Full Production | N/A      | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1790.D4A0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1790.C6A0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1790.C5A0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1790.C1R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1790       | Full Production | \$0.051  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1790.C2R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1790.C3R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1790.C5A1  | Full Production | N/A      | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1790.C6R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1790.D4R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-100              | BOX            |
| HLMP-1790.MP4B  | Full Production | \$0.141  | <a href="#">Purchase</a>   | T-100, Right Angle | BOX            |
| HLMP-1790.MP4BS | Full Production | N/A      | <a href="#">Purchase</a>   | T-100, Right Angle | BOX            |

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## HLMP-4700

Super Red Super Bright AllnGaP T-1 3/4 (5 mm) Low Current LED Lamp - Tinted & Diffused

### Contents

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### General description

The T-1 3/4 HLMP-47XX series and T-100 HLMP-17XX series are tinted diffused, providing a moderate viewing angle. These parts are optimized for low current and are brighter than the standard LED lamps operated at very low current.

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### Features

- Low power consumption (low current drive at 2 mA)
- Solid state reliability
- Tinted and diffused

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### Testing conditions

- $V_F @ I_F = 2 \text{ mA}$ ;  $I_V @ I_F = 2 \text{ mA}$

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### Product status/pricing/packaging

| Product         | Product status  | Pricing* | Inventory check & ordering | Package type | Packing method |
|-----------------|-----------------|----------|----------------------------|--------------|----------------|
| HLMP-47009.MP97 | Full Production | \$0.316  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-4700.B5R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-47009.MP5  | Full Production | \$0.149  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-47009.MP7  | Full Production | \$0.149  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-4700.A1A0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-4700.A2A0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-4700.A2R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-4700.A6A0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-4700.A4A0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-47009.MP8B | Full Production | \$0.62   | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-47009.MP8A | Full Production | \$0.62   | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-47009.MP8  | Full Production | \$0.62   | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-47009.MP6  | Full Production | \$0.149  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-4700.A6R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-4700.A3R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-4700       | Full Production | \$0.051  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-4700.A4R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-4700.A5R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |

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| <a href="#">Memory</a>                                   |                                                                                                                                                                                                                                       | <a href="#">Dotted line</a>                                                                       |  |
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| <a href="#">technical support</a>                        |                                                                                                                                                                                                                                       | <a href="#">[E-</a>                                                                               |  |
| <a href="#">my Fairchild</a>                             | The T-1 3/4 HLMP-47XX series and T-100 HLMP-17XX series are tinted diffused, providing a moderate viewing angle. These parts are optimized for low current and are brighter than the standard LED lamps operated at very low current. | <a href="#">This page</a>                                                                         |  |
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|                                                          | Features                                                                                                                                                                                                                              |                                                                                                   |  |
|                                                          | <ul style="list-style-type: none"><li>Low power consumption (low current drive at 2 mA)</li><li>Solid state reliability</li><li>Tinted and diffused</li></ul>                                                                         |                                                                                                   |  |
|                                                          | <a href="#">back to top</a>                                                                                                                                                                                                           |                                                                                                   |  |
|                                                          | Testing conditions                                                                                                                                                                                                                    |                                                                                                   |  |
|                                                          | <ul style="list-style-type: none"><li>V<sub>F</sub> @ I<sub>F</sub> = 2 mA; I<sub>V</sub> @ I<sub>F</sub> = 2 mA</li></ul>                                                                                                            |                                                                                                   |  |
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|                                                          | Product status/pricing/packaging                                                                                                                                                                                                      |                                                                                                   |  |

| Product         | Product status  | Pricing* | Inventory check & ordering | Package type | Packing method |
|-----------------|-----------------|----------|----------------------------|--------------|----------------|
| HLMP-47199.MP8  | Full Production | \$0.62   | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-4719.A5R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-47199.MP8B | Full Production | \$0.62   | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-47199.MP8A | Full Production | \$0.62   | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-47199.MP7  | Full Production | \$0.149  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-4719.A3R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-47199.MP6  | Full Production | \$0.149  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-4719       | Full Production | \$0.051  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-47199.MP5  | Full Production | \$0.149  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-47199.MP93 | Full Production | \$0.334  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |

\* Fairchild 1,000 piece Budgetary Pricing

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HLMP-4740

High Efficiency Red Water Clear Subminiature  
T-3/4 LED

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General description

The T-1 3/4 HLMP-47XX series and T-100  
HLMP-17XX series are tinted diffused,  
providing a moderate viewing angle. These  
parts are optimized for low current and are  
brighter than the standard LED lamps operated  
at very low current.

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Features

- Low power consumption (low current  
drive at 2 mA)
- Solid state reliability
- Tinted and diffused

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Testing conditions

- $V_F @ I_F = 2 \text{ mA}$ ;  $I_V @ I_F = 2 \text{ mA}$

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Product status/pricing/packaging

| Product         | Product status  | Pricing* | Inventory check & ordering | Package type | Packing method |
|-----------------|-----------------|----------|----------------------------|--------------|----------------|
| HLMP-47409.MP8A | Full Production | \$0.62   | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-47409.MP8B | Full Production | \$0.62   | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-4740.A3R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-47409.MP7  | Full Production | \$0.149  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-4740.A4A0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-4740       | Full Production | \$0.051  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-47409.MP5  | Full Production | \$0.149  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-47409.MP6  | Full Production | \$0.149  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-47409.MP8  | Full Production | \$0.62   | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP47409.MP8B3 | Full Production | N/A      | <a href="#">Purchase</a>   | N/A          | BOX            |
| HLMP-47409.MP94 | Full Production | \$0.316  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |
| HLMP-4740.A6R0  | Full Production | \$0.058  | <a href="#">Purchase</a>   | T-1 3/4      | BOX            |

\* Fairchild 1,000 piece Budgetary Pricing

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