

## Queendom Technology Co., Ltd

# Infrared LED Product Manual [IR LEDs]

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# Queendom Through hole Infrared LEDs

## Queendom Through hole 3mm Infrared LEDs



SIZE: 3.00 × 5.08 MM    Sku: 8541401000THLIL01  
 Typical wavelength: 730nm 850nm 940nm

| RODUCT   | RANK     | NOMINAL    | PEAK (nm) |     | RADIANT (mW/sr) |     | VOLTAGE (V) |     | TYPICAL | TEST | LEAD LENGTH | LENS TYPE | PART NUMBER         |
|----------|----------|------------|-----------|-----|-----------------|-----|-------------|-----|---------|------|-------------|-----------|---------------------|
|          |          | NM         | MIN       | MAX | MIN             | MAX | MIN         | MAX | 2Θ 1/2  | (mA) | (MM)        |           |                     |
| B3IG302C | HLIL0101 | 710        | 710       | 700 | 7               | 13  | 1.4         | 1.6 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0101 |
| B3IF302C | HLIL0102 | 730        | 730       | 730 | 7               | 13  | 1.4         | 1.6 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0102 |
| B3IE302C | HLIL0103 | 750        | 750       | 750 | 7               | 13  | 1.4         | 1.6 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0103 |
| B3ID302C | HLIL0104 | 780        | 780       | 780 | 6               | 12  | 1.4         | 1.6 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0104 |
| B3IC302C | HLIL0105 | <b>850</b> | 850       | 830 | 6               | 12  | 1.4         | 1.6 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0105 |
| B3IB302C | HLIL0106 | 880        | 880       | 870 | 6               | 10  | 1.3         | 1.6 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0106 |
| B3IA302C | HLIL0107 | <b>940</b> | 940       | 930 | 5               | 10  | 1.2         | 1.5 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0107 |
| B3IG304C | HLIL0108 | 710        | 710       | 700 | 7               | 13  | 1.4         | 1.6 | 30      | 20   | 28/26       | Clear     | 8541401000THLIL0108 |
| B3IF304C | HLIL0109 | 730        | 730       | 730 | 7               | 13  | 1.4         | 1.6 | 30      | 20   | 28/26       | Clear     | 8541401000THLIL0109 |
| B3EI304C | HLIL0110 | 750        | 750       | 750 | 7               | 13  | 1.4         | 1.6 | 30      | 20   | 28/26       | Clear     | 8541401000THLIL0110 |
| B3ID304C | HLIL0111 | 780        | 780       | 780 | 6               | 12  | 1.4         | 1.6 | 30      | 20   | 28/26       | Clear     | 8541401000THLIL0111 |
| B3IC304C | HLIL0112 | <b>850</b> | 850       | 830 | 6               | 12  | 1.4         | 1.6 | 30      | 20   | 28/26       | Clear     | 8541401000THLIL0112 |
| B3IB304C | HLIL0113 | 880        | 880       | 870 | 6               | 10  | 1.3         | 1.6 | 30      | 20   | 28/26       | Clear     | 8541401000THLIL0113 |
| B3IA304C | HLIL0114 | <b>940</b> | 940       | 960 | 5               | 10  | 1.2         | 1.5 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0114 |

## Queendom Through hole 5mm Infrared LEDs



SIZE: 5.00 × 8.7 MM    Sku: 8541401000THLIL02

Typical wavelength: 730nm 850nm 940nm

| RODUCT    | RANK     | NOMINAL    | PEAK (nm) |     | RADIANT (mW/sr) |     | VOLTAGE (V) |     | TYPICAL | TEST | LEAD LENGTH (MM) | LENS TYPE | PART NUMBER         |
|-----------|----------|------------|-----------|-----|-----------------|-----|-------------|-----|---------|------|------------------|-----------|---------------------|
|           |          | NM         | MIN       | MAX | MIN             | MAX | MIN         | MAX |         |      |                  |           |                     |
| B5IG302C  | HLIL0201 | 710        | 710       | 700 | 7               | 13  | 1.4         | 1.6 | 30      | 20   | 18/16            | Clear     | 8541401000THLIL0201 |
| B5IF302C  | HLIL0202 | 730        | 730       | 730 | 7               | 13  | 1.4         | 1.6 | 30      | 20   | 18/16            | Clear     | 8541401000THLIL0202 |
| B5IE302C  | HLIL0203 | 750        | 750       | 750 | 7               | 13  | 1.4         | 1.6 | 30      | 20   | 18/16            | Clear     | 8541401000THLIL0203 |
| B5ID302C  | HLIL0204 | 780        | 780       | 780 | 6               | 12  | 1.4         | 1.6 | 30      | 20   | 18/16            | Clear     | 8541401000THLIL0204 |
| B5IC302C  | HLIL0205 | <b>850</b> | 850       | 830 | 20              | 90  | 1.4         | 1.6 | 30      | 20   | 18/16            | Clear     | 8541401000THLIL0205 |
| B5IB302C  | HLIL0206 | 880        | 880       | 870 | 6               | 10  | 1.3         | 1.6 | 30      | 20   | 18/16            | Clear     | 8541401000THLIL0206 |
| B5IA302C  | HLIL0207 | <b>940</b> | 940       | 930 | 5               | 10  | 1.2         | 1.5 | 30      | 20   | 18/16            | Clear     | 8541401000THLIL0207 |
| B5IG304C  | HLIL0208 | 710        | 710       | 700 | 8               | 16  | 1.4         | 1.6 | 30      | 20   | 28/26            | Clear     | 8541401000THLIL0208 |
| B5IF304C  | HLIL0209 | 730        | 730       | 730 | 8               | 16  | 1.4         | 1.6 | 30      | 20   | 28/26            | Clear     | 8541401000THLIL0209 |
| B5EI304C  | HLIL0210 | 750        | 750       | 750 | 8               | 16  | 1.4         | 1.6 | 30      | 20   | 28/26            | Clear     | 8541401000THLIL0210 |
| B5ID304C  | HLIL0211 | 780        | 780       | 780 | 7               | 15  | 1.4         | 1.6 | 30      | 20   | 28/26            | Clear     | 8541401000THLIL0211 |
| B5IC304C  | HLIL0212 | <b>850</b> | 850       | 830 | 7               | 15  | 1.4         | 1.6 | 30      | 20   | 28/26            | Clear     | 8541401000THLIL0212 |
| B5IB304C  | HLIL0213 | 880        | 880       | 870 | 6               | 13  | 1.3         | 1.6 | 30      | 20   | 28/26            | Clear     | 8541401000THLIL0213 |
| B5IA304C  | HLIL0214 | <b>940</b> | 940       | 960 | 6               | 12  | 1.2         | 1.5 | 30      | 20   | 28/26            | Clear     | 8541401000THLIL0214 |
| B5IG302CC | HLIL0201 | 710        | 710       | 700 | 7               | 13  | 1.4         | 1.6 | 60      | 20   | 18/16            | Clear     | 8541401000THLIL0215 |
| B5IF302CC | HLIL0202 | 730        | 730       | 730 | 7               | 13  | 1.4         | 1.6 | 60      | 20   | 18/16            | Clear     | 8541401000THLIL0216 |
| B5IE302CC | HLIL0203 | 750        | 750       | 750 | 7               | 13  | 1.4         | 1.6 | 60      | 20   | 18/16            | Clear     | 8541401000THLIL0217 |
| B5ID302CC | HLIL0204 | 780        | 780       | 780 | 6               | 12  | 1.4         | 1.6 | 60      | 20   | 18/16            | Clear     | 8541401000THLIL0218 |
| B5IC302CC | HLIL0205 | <b>850</b> | 850       | 830 | 6               | 12  | 1.4         | 1.6 | 60      | 20   | 18/16            | Clear     | 8541401000THLIL0219 |
| B5IB302CC | HLIL0206 | 880        | 880       | 870 | 6               | 10  | 1.3         | 1.6 | 60      | 20   | 18/16            | Clear     | 8541401000THLIL0220 |
| B5IA302CC | HLIL0207 | <b>940</b> | 940       | 930 | 5               | 10  | 1.2         | 1.5 | 60      | 20   | 18/16            | Clear     | 8541401000THLIL0221 |
| B5IG304CC | HLIL0208 | 710        | 710       | 700 | 8               | 16  | 1.4         | 1.6 | 60      | 20   | 28/26            | Clear     | 8541401000THLIL0222 |
| B5IF304CC | HLIL0209 | 730        | 730       | 730 | 8               | 16  | 1.4         | 1.6 | 60      | 20   | 28/26            | Clear     | 8541401000THLIL0223 |
| B5EI304CC | HLIL0210 | 750        | 750       | 750 | 8               | 16  | 1.4         | 1.6 | 60      | 20   | 28/26            | Clear     | 8541401000THLIL0224 |
| B5ID304CC | HLIL0211 | 780        | 780       | 780 | 7               | 15  | 1.4         | 1.6 | 60      | 20   | 28/26            | Clear     | 8541401000THLIL0225 |
| B5IC304CC | HLIL0212 | <b>850</b> | 850       | 830 | 7               | 15  | 1.4         | 1.6 | 60      | 20   | 28/26            | Clear     | 8541401000THLIL0226 |
| B5IB304CC | HLIL0213 | 880        | 880       | 870 | 6               | 13  | 1.3         | 1.6 | 60      | 20   | 28/26            | Clear     | 8541401000THLIL0227 |
| B5IA304CC | HLIL0214 | <b>940</b> | 940       | 960 | 6               | 12  | 1.2         | 1.5 | 60      | 20   | 28/26            | Clear     | 8541401000THLIL0228 |

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## Queendom Through hole 8mm Infrared LEDs



SIZE: 8.00 × 11 MM    Sku: 8541401000THLIL03

Typical wavelength: 730nm 850nm 940nm

| RODUCT   | RANK     | NOMINAL | PEAK (nm) |     | RADIANT (mW/sr) |     | VOLTAGE (V) |     | TYPICAL | TEST | LEAD LENGTH | LENS TYPE | PART NUMBER         |
|----------|----------|---------|-----------|-----|-----------------|-----|-------------|-----|---------|------|-------------|-----------|---------------------|
|          |          | NM      | MIN       | MAX | MIN             | MAX | MIN         | MAX | 2Θ 1/2  | (mA) | (MM)        |           |                     |
| B8IG302C | HLIL0301 | 710     | 710       | 700 | 8               | 15  | 1.4         | 1.6 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0301 |
| B8IF302C | HLIL0302 | 730     | 730       | 730 | 8               | 15  | 1.4         | 1.6 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0302 |
| B8IE302C | HLIL0303 | 750     | 750       | 750 | 8               | 15  | 1.4         | 1.6 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0303 |
| B8ID302C | HLIL0304 | 780     | 780       | 780 | 7               | 13  | 1.4         | 1.6 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0304 |
| B8IC302C | HLIL0305 | 850     | 850       | 830 | 7               | 13  | 1.4         | 1.6 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0305 |
| B8IB302C | HLIL0306 | 880     | 880       | 870 | 7               | 13  | 1.3         | 1.6 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0306 |
| B8IA302C | HLIL0307 | 940     | 940       | 930 | 6               | 12  | 1.2         | 1.5 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0307 |
| B8IG304C | HLIL0308 | 710     | 710       | 700 | 8               | 15  | 1.4         | 1.6 | 30      | 20   | 28/26       | Clear     | 8541401000THLIL0308 |
| B8IF304C | HLIL0309 | 730     | 730       | 730 | 8               | 15  | 1.4         | 1.6 | 30      | 20   | 28/26       | Clear     | 8541401000THLIL0309 |
| B8EI304C | HLIL0310 | 750     | 750       | 750 | 8               | 15  | 1.4         | 1.6 | 30      | 20   | 28/26       | Clear     | 8541401000THLIL0310 |
| B8ID304C | HLIL0311 | 780     | 780       | 780 | 7               | 13  | 1.4         | 1.6 | 30      | 20   | 28/26       | Clear     | 8541401000THLIL0311 |
| B8IC304C | HLIL0312 | 850     | 850       | 830 | 7               | 13  | 1.4         | 1.6 | 30      | 20   | 28/26       | Clear     | 8541401000THLIL0312 |
| B8IB304C | HLIL0313 | 880     | 880       | 870 | 7               | 13  | 1.3         | 1.6 | 30      | 20   | 28/26       | Clear     | 8541401000THLIL0313 |
| B8IA304C | HLIL0314 | 940     | 940       | 960 | 6               | 12  | 1.2         | 1.5 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0314 |

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## Queendom Through hole 10mm Infrared LEDs



SIZE: 10.00 × 13 MM    Sku: 8541401000THLIL04

Typical wavelength: 730nm 850nm 940nm

| RODUCT    | RANK     | NOMINAL | PEAK (nm) |     | RADIANT (mW/sr) |     | VOLTAGE (V) |     | TYPICAL | TEST | LEAD LENGTH | LENS TYPE | PART NUMBER         |
|-----------|----------|---------|-----------|-----|-----------------|-----|-------------|-----|---------|------|-------------|-----------|---------------------|
|           |          | NM      | MIN       | MAX | MIN             | MAX | MIN         | MAX | 2Θ 1/2  | (mA) | (MM)        |           |                     |
| B10IG302C | HLIL0401 | 710     | 710       | 700 | 9               | 16  | 1.4         | 1.6 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0401 |
| B10IF302C | HLIL0402 | 730     | 730       | 730 | 9               | 16  | 1.4         | 1.6 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0402 |
| B10IE302C | HLIL0403 | 750     | 750       | 750 | 9               | 16  | 1.4         | 1.6 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0403 |
| B10ID302C | HLIL0404 | 780     | 780       | 780 | 8               | 14  | 1.4         | 1.6 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0404 |
| B10IC302C | HLIL0405 | 850     | 850       | 830 | 8               | 14  | 1.4         | 1.6 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0405 |
| B10IB302C | HLIL0406 | 880     | 880       | 870 | 8               | 14  | 1.3         | 1.6 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0406 |
| B10IA302C | HLIL0407 | 940     | 940       | 930 | 7               | 13  | 1.2         | 1.5 | 30      | 20   | 18/16       | Clear     | 8541401000THLIL0407 |
| B10IG304C | HLIL0408 | 710     | 710       | 700 | 9               | 16  | 1.4         | 1.6 | 30      | 20   | 28/26       | Clear     | 8541401000THLIL0408 |
| B10IF304C | HLIL0409 | 730     | 730       | 730 | 9               | 16  | 1.4         | 1.6 | 30      | 20   | 28/26       | Clear     | 8541401000THLIL0409 |
| B10EI304C | HLIL0410 | 750     | 750       | 750 | 9               | 16  | 1.4         | 1.6 | 30      | 20   | 28/26       | Clear     | 8541401000THLIL0410 |
| B10ID304C | HLIL0411 | 780     | 780       | 780 | 8               | 14  | 1.4         | 1.6 | 30      | 20   | 28/26       | Clear     | 8541401000THLIL0411 |
| B10IC304C | HLIL0412 | 850     | 850       | 830 | 8               | 14  | 1.4         | 1.6 | 30      | 20   | 28/26       | Clear     | 8541401000THLIL0412 |
| B10IB304C | HLIL0413 | 880     | 880       | 870 | 8               | 14  | 1.3         | 1.6 | 30      | 20   | 28/26       | Clear     | 8541401000THLIL0413 |
| B10IA304C | HLIL0414 | 940     | 940       | 960 | 7               | 13  | 1.2         | 1.5 | 30      | 20   | 28/26       | Clear     | 8541401000THLIL0414 |

# Queendom SMD Infrared LEDs

## Queendom Smd 1608 Infrared LEDs



SIZE: 1.60 × 0.80 × 0.6MM    Sku: 8541401000SMDIL05  
 Typical wavelength: 730nm 850nm 940nm

| RODUCT     | RANK     | NOMINAL | PEAK (nm) |     | RADIANT (mW/sr) |      | VOLTAGE (V) |     | TYPICAL | TEST | PART NUMBER         |
|------------|----------|---------|-----------|-----|-----------------|------|-------------|-----|---------|------|---------------------|
|            |          | NM      | MIN       | MAX | MIN             | MAX  | MIN         | MAX | 2Θ 1/2  | (mA) |                     |
| S1608IG2WA | HLIL0501 | 710     | 700       | 730 | 0.30            | 0.80 | 1.4         | 1.6 | 140     | 20   | 8541401000THLIL0501 |
| S1608IF2WA | HLIL0502 | 730     | 730       | 750 | 0.30            | 0.80 | 1.4         | 1.6 | 140     | 20   | 8541401000THLIL0502 |
| S1608IE2WA | HLIL0503 | 750     | 750       | 780 | 0.30            | 1.00 | 1.4         | 1.6 | 140     | 20   | 8541401000THLIL0503 |
| S1608ID2WA | HLIL0504 | 780     | 780       | 790 | 0.40            | 1.20 | 1.4         | 1.6 | 140     | 20   | 8541401000THLIL0504 |
| S1608IC2WA | HLIL0505 | 850     | 830       | 860 | 0.50            | 1.50 | 1.4         | 1.6 | 140     | 20   | 8541401000THLIL0505 |
| S1608IB2WA | HLIL0506 | 880     | 870       | 890 | 0.50            | 1.80 | 1.3         | 1.6 | 140     | 20   | 8541401000THLIL0506 |
| S1608IA2WA | HLIL0507 | 940     | 930       | 950 | 0.80            | 2.00 | 1.2         | 1.5 | 140     | 20   | 8541401000THLIL0507 |
| S1608IG2WA | HLIL0508 | 710     | 700       | 730 | 0.30            | 0.80 | 1.4         | 1.6 | 140     | 20   | 8541401000THLIL0508 |
| S1608IF2WA | HLIL0509 | 730     | 730       | 750 | 0.30            | 0.80 | 1.4         | 1.6 | 140     | 20   | 8541401000THLIL0509 |
| S1608EI2WA | HLIL0510 | 750     | 750       | 780 | 0.30            | 1.00 | 1.4         | 1.6 | 140     | 20   | 8541401000THLIL0510 |
| S1608ID2WA | HLIL0511 | 780     | 780       | 790 | 0.40            | 1.20 | 1.4         | 1.6 | 140     | 20   | 8541401000THLIL0511 |
| S1608IC2WA | HLIL0512 | 850     | 830       | 860 | 0.50            | 1.50 | 1.4         | 1.6 | 140     | 20   | 8541401000THLIL0512 |
| S1608IB2WA | HLIL0513 | 880     | 870       | 890 | 0.50            | 1.80 | 1.3         | 1.6 | 140     | 20   | 8541401000THLIL0513 |
| S1608IA2WA | HLIL0514 | 940     | 930       | 950 | 0.80            | 2.00 | 1.2         | 1.5 | 140     | 20   | 8541401000THLIL0514 |

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## Queendom Smd 2012 Infrared LEDs



SIZE: : 2.00 × 1.25 × 1.10 MM    Sku: 8541401000SMDIL06  
 Typical wavelength: 730nm 850nm 940nm

| RODUCT     | RANK      | NOMINAL | PEAK (nm) |     | RADIANT (mW/sr) |      | VOLTAGE (V) |     | TYPICAL | TEST | PART NUMBER         |
|------------|-----------|---------|-----------|-----|-----------------|------|-------------|-----|---------|------|---------------------|
|            |           | NM      | MIN       | MAX | MIN             | MAX  | MIN         | MAX | 2Θ 1/2  | (mA) |                     |
| S2012IG2WA | SMDIL0601 | 710     | 700       | 730 | 0.30            | 0.80 | 1.4         | 1.6 | 140     | 20   | 8541401000SMDIL0601 |
| S2012IF2WA | SMDIL0602 | 730     | 730       | 750 | 0.30            | 0.80 | 1.4         | 1.6 | 140     | 20   | 8541401000SMDIL0602 |
| S2012IE2WA | SMDIL0603 | 750     | 750       | 780 | 0.30            | 1.00 | 1.4         | 1.6 | 140     | 20   | 8541401000SMDIL0603 |
| S2012ID2WA | SMDIL0604 | 780     | 780       | 790 | 0.40            | 1.20 | 1.4         | 1.6 | 140     | 20   | 8541401000SMDIL0604 |
| S2012IC2WA | SMDIL0605 | 850     | 830       | 860 | 0.50            | 1.50 | 1.4         | 1.6 | 140     | 20   | 8541401000SMDIL0605 |
| S2012IB2WA | SMDIL0606 | 880     | 870       | 890 | 0.50            | 1.80 | 1.3         | 1.6 | 140     | 20   | 8541401000SMDIL0606 |
| S2012IA2WA | SMDIL0607 | 940     | 930       | 950 | 0.80            | 2.00 | 1.2         | 1.5 | 140     | 20   | 8541401000SMDIL0607 |
| S2012IG2WA | SMDIL0608 | 710     | 700       | 730 | 0.30            | 0.80 | 1.4         | 1.6 | 140     | 20   | 8541401000SMDIL0608 |
| S2012IF2WA | SMDIL0609 | 730     | 730       | 750 | 0.30            | 0.80 | 1.4         | 1.6 | 140     | 20   | 8541401000SMDIL0609 |
| S2012EI2WA | SMDIL0610 | 750     | 750       | 780 | 0.30            | 1.00 | 1.4         | 1.6 | 140     | 20   | 8541401000SMDIL0610 |
| S2012ID2WA | SMDIL0611 | 780     | 780       | 790 | 0.40            | 1.20 | 1.4         | 1.6 | 140     | 20   | 8541401000SMDIL0611 |
| S2012IC2WA | SMDIL0612 | 850     | 830       | 860 | 0.50            | 1.50 | 1.4         | 1.6 | 140     | 20   | 8541401000SMDIL0612 |
| S2012IB2WA | SMDIL0613 | 880     | 870       | 890 | 0.50            | 1.80 | 1.3         | 1.6 | 140     | 20   | 8541401000SMDIL0613 |
| S2012IA2WA | SMDIL0614 | 940     | 930       | 950 | 0.80            | 2.00 | 1.2         | 1.5 | 140     | 20   | 8541401000SMDIL0614 |

# Queendom Smd 3216 Infrared LEDs

SIZE: 3.20 × 1.60 × 1.10 mm    Sku: 8541401000SMDIL07  
 Typical wavelength: 730nm 850nm 940nm



| RODUCT      | RANK      | NOMINAL | PEAK (nm) |     | RADIANT (mW/sr) |      | VOLTAGE (V) |     | TYPICAL | TEST | PART NUMBER         |
|-------------|-----------|---------|-----------|-----|-----------------|------|-------------|-----|---------|------|---------------------|
|             |           | NM      | MIN       | MAX | MIN             | MAX  | MIN         | MAX | 2Θ 1/2  | (mA) |                     |
| S3216IG2WA  | SMDIL0701 | 710     | 700       | 730 | 1.00            | 3.00 | 1.4         | 1.6 | 140     | 20   | 8541401000SMDIL0701 |
| S3216IF2WA  | SMDIL0702 | 730     | 730       | 750 | 1.00            | 3.00 | 1.4         | 1.6 | 140     | 20   | 8541401000SMDIL0702 |
| S3216IE2WA  | SMDIL0703 | 750     | 750       | 780 | 1.10            | 3.50 | 1.4         | 1.6 | 140     | 20   | 8541401000SMDIL0703 |
| S3216ID2WA  | SMDIL0704 | 780     | 780       | 790 | 1.10            | 3.50 | 1.4         | 1.6 | 140     | 20   | 8541401000SMDIL0704 |
| S3216IC2WA  | SMDIL0705 | 850     | 830       | 860 | 1.60            | 4.00 | 1.4         | 1.6 | 140     | 20   | 8541401000SMDIL0705 |
| S3216IB2WA  | SMDIL0706 | 880     | 870       | 890 | 2.00            | 5.00 | 1.3         | 1.6 | 140     | 20   | 8541401000SMDIL0706 |
| S3216IA2WA  | SMDIL0707 | 940     | 930       | 950 | 2.00            | 5.00 | 1.2         | 1.5 | 140     | 20   | 8541401000SMDIL0707 |
| S3216IG2WA  | SMDIL0708 | 710     | 700       | 730 | 1.00            | 3.00 | 1.4         | 1.6 | 140     | 20   | 8541401000SMDIL0708 |
| S3216IF2WA  | SMDIL0709 | 730     | 730       | 750 | 1.00            | 3.00 | 1.4         | 1.6 | 140     | 20   | 8541401000SMDIL0709 |
| S3216IEI2WA | SMDIL0710 | 750     | 750       | 780 | 1.10            | 3.50 | 1.4         | 1.6 | 140     | 20   | 8541401000SMDIL0710 |
| S3216ID2WA  | SMDIL0711 | 780     | 780       | 790 | 1.10            | 3.50 | 1.4         | 1.6 | 140     | 20   | 8541401000SMDIL0711 |
| S3216IC2WA  | SMDIL0712 | 850     | 830       | 860 | 1.60            | 4.00 | 1.4         | 1.6 | 140     | 20   | 8541401000SMDIL0712 |
| S3216IB2WA  | SMDIL0713 | 880     | 870       | 890 | 2.00            | 5.00 | 1.3         | 1.6 | 140     | 20   | 8541401000SMDIL0713 |
| S3216IA2WA  | SMDIL0714 | 940     | 930       | 950 | 2.00            | 5.00 | 1.2         | 1.5 | 140     | 20   | 8541401000SMDIL0714 |

# Queendom High Power Infrared LEDs

## Queendom Smd 3535 Infrared LEDs

SIZE: 3.50 × 3.50 × 2.00 MM      Sku: 8541401000SMDIL08  
 Typical wavelength: 730nm 850nm 940nm



| RODUCT      | RANK      | NOMINAL | PEAK (nm) |     | RADIANT (mW/sr) |      | VOLTAGE (V) |      | TYPICAL | TEST | PART NUMBER         |
|-------------|-----------|---------|-----------|-----|-----------------|------|-------------|------|---------|------|---------------------|
|             |           | NM      | MIN       | MAX | MIN             | MAX  | MIN         | MAX  | 2Θ 1/2  | (mA) |                     |
| HP3535IH2WE | SMDIL0801 | 850     | 830       | 860 | 130             | 160  | 1.40        | 2.00 | 130     | 300  | 8541401000SMDIL0801 |
| HP3535IK2WE | SMDIL0802 | 880     | 870       | 890 | 150             | 180  | 1.40        | 2.00 | 130     | 300  | 8541401000SMDIL0802 |
| HP3535IQ2WE | SMDIL0803 | 940     | 930       | 950 | 180             | 300  | 1.40        | 2.00 | 130     | 300  | 8541401000SMDIL0803 |
| HP3535IH2WF | SMDIL0804 | 850     | 830       | 860 | 150             | 180  | 1.40        | 2.00 | 130     | 500  | 8541401000SMDIL0804 |
| HP3535IK2WF | SMDIL0805 | 880     | 870       | 890 | 170             | 210  | 1.40        | 2.00 | 130     | 500  | 8541401000SMDIL0805 |
| HP3535IQ2WF | SMDIL0806 | 940     | 930       | 950 | 200             | 330  | 1.40        | 2.00 | 130     | 500  | 8541401000SMDIL0806 |
| HP3535IH2WF | SMDIL0807 | 850     | 830       | 860 | 290             | 490  | 1.40        | 2.00 | 130     | 800  | 8541401000SMDIL0807 |
| HP3535IK2WF | SMDIL0808 | 880     | 870       | 890 | 290             | 490  | 1.40        | 2.00 | 130     | 800  | 8541401000SMDIL0808 |
| HP3535IQ2WF | SMDIL0809 | 940     | 930       | 950 | 670             | 1070 | 1.40        | 2.00 | 130     | 800  | 8541401000SMDIL0809 |

## Queendom Smd 5050 Infrared LEDs

SIZE: 5.00 × 5.00 × 2.00 MM      Sku: 8541401000SMDIL09  
 Typical wavelength: 730nm 850nm 940nm



| RODUCT       | RANK      | NOMINAL | PEAK (nm) |     | RADIANT (mW/sr) |      | VOLTAGE (V) |      | TYPICAL | TEST | PART NUMBER         |
|--------------|-----------|---------|-----------|-----|-----------------|------|-------------|------|---------|------|---------------------|
|              |           | NM      | MIN       | MAX | MIN             | MAX  | MIN         | MAX  | 2Θ 1/2  | (mA) |                     |
| HP5050IH2WE  | SMDIL0901 | 850     | 830       | 860 | 290             | 490  | 1.40        | 2.00 | 130     | 300  | 8541401000SMDIL0901 |
| HP5050IK2WE  | SMDIL0902 | 880     | 870       | 890 | 290             | 490  | 1.40        | 2.00 | 130     | 300  | 8541401000SMDIL0902 |
| HP5050IQ2WE  | SMDIL0903 | 940     | 930       | 950 | 670             | 1070 | 1.40        | 2.00 | 130     | 300  | 8541401000SMDIL0903 |
| HP5050IH4WG  | SMDIL0904 | 850     | 830       | 860 | 770             | 1270 | 1.50        | 2.40 | 130     | 500  | 8541401000SMDIL0904 |
| HHP5050IK4WG | SMDIL0905 | 880     | 870       | 890 | 770             | 1270 | 1.50        | 2.40 | 130     | 500  | 8541401000SMDIL0905 |
| HP5050IQ4WG  | SMDIL0906 | 940     | 930       | 950 | 1070            | 1470 | 1.50        | 2.40 | 130     | 500  | 8541401000SMDIL0906 |
| HP5050IH8WG  | SMDIL0907 | 850     | 830       | 860 | 870             | 1470 | 1.50        | 2.40 | 130     | 800  | 8541401000SMDIL0907 |
| HP5050IK8WG  | SMDIL0908 | 880     | 870       | 890 | 870             | 1470 | 1.50        | 2.40 | 130     | 800  | 8541401000SMDIL0908 |
| HP5050IQ8WG  | SMDIL0909 | 940     | 930       | 950 | 1070            | 1670 | 1.50        | 2.40 | 130     | 800  | 8541401000SMDIL0909 |

# Queendom High Power Infrared LEDs

## Queendom Smd 7070 Infrared LEDs

SIZE: 7.00 × 7.00 × 2.00 MM      Sku: 8541401000SMDIL10  
 Typical wavelength: 730nm 850nm 940nm



| RODUCT      | RANK      | NOMINAL | PEAK (nm) |     | RADIANT (mW/sr) |      | VOLTAGE (V) |      | TYPICAL | TEST | PART NUMBER         |
|-------------|-----------|---------|-----------|-----|-----------------|------|-------------|------|---------|------|---------------------|
|             |           | NM      | MIN       | MAX | MIN             | MAX  | MIN         | MAX  | 2Θ 1/2  | (mA) |                     |
| HP7070IH4WG | SMDIL1001 | 850     | 830       | 860 | 770             | 1270 | 1.50        | 2.40 | 130     | 500  | 8541401000SMDIL1001 |
| HP7070IK4WG | SMDIL1002 | 880     | 870       | 890 | 770             | 1270 | 1.50        | 2.40 | 130     | 500  | 8541401000SMDIL1002 |
| HP7070IQ4WG | SMDIL1003 | 940     | 930       | 950 | 1070            | 1470 | 1.50        | 2.40 | 130     | 500  | 8541401000SMDIL1003 |
| HP7070IH8WG | SMDIL1004 | 850     | 830       | 860 | 870             | 1470 | 1.50        | 2.40 | 130     | 800  | 8541401000SMDIL1004 |
| HP7070IK8WG | SMDIL1005 | 880     | 870       | 890 | 870             | 1470 | 1.50        | 2.40 | 130     | 800  | 8541401000SMDIL1005 |
| HP7070IQ8WG | SMDIL1006 | 940     | 930       | 950 | 1070            | 1670 | 1.50        | 2.40 | 130     | 800  | 8541401000SMDIL1006 |
| HP7070IH8WG | SMDIL1007 | 850     | 830       | 860 | 1270            | 2270 | 1.50        | 2.40 | 130     | 1400 | 8541401000SMDIL1007 |
| HP7070IK8WG | SMDIL1008 | 880     | 870       | 890 | 1270            | 2270 | 1.50        | 2.40 | 130     | 1400 | 8541401000SMDIL1008 |
| HP7070IQ8WG | SMDIL1009 | 940     | 930       | 950 | 1070            | 1670 | 1.50        | 2.40 | 130     | 1400 | 8541401000SMDIL1009 |

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## Queendom High Power Infrared LEDs

SIZE: Φ8 ×14.5 MM      Sku: 8541401000SMDIL11  
 Typical wavelength: 730nm 850nm 940nm



| RODUCT | RANK      | NOMINAL | PEAK (nm) |     | RADIANT (mW/sr) |      | VOLTAGE (V) |      | TYPICAL | TEST | PART NUMBER         |
|--------|-----------|---------|-----------|-----|-----------------|------|-------------|------|---------|------|---------------------|
|        |           | NM      | MIN       | MAX | MIN             | MAX  | MIN         | MAX  | 2Θ 1/2  | (mA) |                     |
| PIH2WE | SMDIL1101 | 850     | 830       | 860 | 130             | 160  | 1.40        | 2.00 | 130     | 300  | 8541401000SMDIL1101 |
| PIK2WE | SMDIL1102 | 880     | 870       | 890 | 150             | 180  | 1.40        | 2.00 | 130     | 300  | 8541401000SMDIL1102 |
| PIQ2WE | SMDIL1103 | 940     | 930       | 950 | 180             | 300  | 1.40        | 2.00 | 130     | 300  | 8541401000SMDIL1103 |
| PIH2WF | SMDIL1104 | 850     | 830       | 860 | 150             | 180  | 1.40        | 2.00 | 130     | 500  | 8541401000SMDIL1104 |
| PIK2WF | SMDIL1105 | 880     | 870       | 890 | 170             | 210  | 1.40        | 2.00 | 130     | 500  | 8541401000SMDIL1105 |
| PIQ2WF | SMDIL1106 | 940     | 930       | 950 | 200             | 330  | 1.40        | 2.00 | 130     | 500  | 8541401000SMDIL1106 |
| PIH2WF | SMDIL1107 | 850     | 830       | 860 | 290             | 490  | 1.40        | 2.00 | 130     | 800  | 8541401000SMDIL1107 |
| PIK2WF | SMDIL1108 | 880     | 870       | 890 | 290             | 490  | 1.40        | 2.00 | 130     | 800  | 8541401000SMDIL1108 |
| PIQ2WF | SMDIL1109 | 940     | 930       | 950 | 670             | 1070 | 1.40        | 2.00 | 130     | 800  | 8541401000SMDIL1109 |