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Smart
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FIR Temperature Sensors

Smart
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Non-contact temperature sensors - standard accuracy temperature detector

| Type | Product | Operating temp. | Object temp | Factory calibrated accuracy | Supply Voltage | Supply current | Sleep current | Package | Dimensions (mm) | | Field of View | Output Type Plate Polarity | | |
|------------------------------------|---------------------|-----------------|-------------|--------------------------------|----------------|----------------|---------------|---------|-----------------|----------|---------------|----------------------------|-------|-----|
| | | °C | °C | | V | mA | µA | | Height | Diameter | | ° | SMBus | PWM |
| Single pixel | MLX90614KSF-AAA-000 | -40 to 125 | -70 to 380 | Standard | 4.5 - 5.5 | <2 | <6 | T0-39 | 4.1 | 9.1 | 90 | ✓ | ✓ | |
| Dual pixel | MLX90614KSF-ABA-000 | -40 to 125 | -70 to 380 | Standard | 4.5 - 5.5 | <2 | <6 | T0-39 | 4.1 | 9.1 | 120 | ✓ | ✓ | |
| Single pixel, gradient compensated | MLX90614KSF-ACC-000 | -40 to 125 | -70 to 380 | Standard | 4.5 - 5.5 | <2 | <6 | T0-39 | 8.1 | 10.2 | 35 | ✓ | ✓ | |
| Single pixel | MLX90614ESF-AAA-000 | -40 to 85 | -70 to 380 | Standard | 4.5 - 5.5 | <2 | <6 | T0-39 | 4.1 | 9.1 | 90 | ✓ | ✓ | |
| Dual pixel | MLX90614ESF-ABA-000 | -40 to 85 | -70 to 380 | Standard | 4.5 - 5.5 | <2 | <6 | T0-39 | 4.1 | 9.1 | 90 | ✓ | ✓ | |
| Single pixel, gradient compensated | MLX90614ESF-ACA-000 | -40 to 85 | -70 to 380 | Standard | 4.5 - 5.5 | <2 | <6 | T0-39 | 4.1 | 9.1 | 90 | ✓ | ✓ | |
| Single pixel | MLX90614ESF-BAA-000 | -40 to 85 | -70 to 380 | Standard | 2.6 - 3.6 | <2 | <6 | T0-39 | 4.1 | 9.1 | 90 | ✓ | ✓ | |
| Dual pixel | MLX90614ESF-BBA-000 | -40 to 85 | -70 to 380 | Standard | 2.6 - 3.6 | <2 | <6 | T0-39 | 4.1 | 9.1 | 90 | ✓ | ✓ | |
| Single pixel, gradient compensated | MLX90614ESF-BCA-000 | -40 to 85 | -70 to 380 | Standard | 2.6 - 3.6 | <2 | <6 | T0-39 | 4.1 | 9.1 | 90 | ✓ | ✓ | |
| Single pixel, gradient compensated | MLX90614ESF-ACC-000 | -40 to 85 | -70 to 380 | Standard | 4.5 - 5.5 | <2 | <6 | T0-39 | 8.1 | 10.2 | 35 | ✓ | ✓ | |
| Single pixel, gradient compensated | MLX90614ESF-BCC-000 | -40 to 85 | -70 to 380 | Standard | 2.6 - 3.6 | <2 | <6 | T0-39 | 8.1 | 10.2 | 35 | ✓ | ✓ | |
| Single pixel, gradient compensated | MLX90614ESF-ACF-000 | -40 to 85 | -70 to 380 | Standard | 4.5 - 5.5 | <2 | <6 | T0-39 | 17.2 | 9.1 | 10 | ✓ | ✓ | |
| Single pixel, gradient compensated | MLX90614ESF-BCF-000 | -40 to 85 | -70 to 380 | Standard | 2.6 - 3.6 | <2 | <6 | T0-39 | 17.2 | 9.1 | 10 | ✓ | ✓ | |
| Single pixel, gradient compensated | MLX90614ESF-BCH-000 | -40 to 85 | -70 to 380 | Standard | 2.6 - 3.6 | <2 | <6 | T0-39 | 8.3 | 9.1 | 12 | ✓ | ✓ | |
| Single pixel, gradient compensated | MLX90614ESF-BCI-000 | -40 to 85 | -70 to 380 | Standard | 2.6 - 3.6 | <2 | <6 | T0-39 | 20.2 | 9.1 | 5 | ✓ | ✓ | |
| Single pixel, gradient compensated | MLX90614ESF-ACK-000 | -40 to 85 | -70 to 380 | +/-1C to +/-4C (see datasheet) | 4.5 - 5.5 | <2 | <6 | T0-39 | 8.1 | 10.2 | 15 | ✓ | ✓ | |
| Single pixel, gradient compensated | MLX90614ESF-BCK-000 | -40 to 85 | -70 to 380 | +/-1C to +/-4C (see datasheet) | 2.6 - 3.6 | <2 | <6 | T0-39 | 8.1 | 10.2 | 15 | ✓ | ✓ | |
| Single pixel, gradient compensated | MLX90632SLD-BCB-000 | -20 to 85 | -20 to 200 | +/-1C to +/-4C (see datasheet) | 3.0 - 3.6 | <1.4 | <2.5 | QFN | 1 | 3x3 | 50 | | | ✓ |



MLX90614ESF-AAA



MLX90632

Non-contact temperature sensors - medical accuracy temperature detector

| Type | Product | Operating temp. | Object temp | Factory calibrated accuracy | Supply Voltage | Supply current | Sleep current | Package | Dimensions (mm) | | Field of View | Output Type Plate Polarity | | |
|------------------------------------|---------------------|-----------------|-------------|-----------------------------|----------------|----------------|---------------|---------|-----------------|----------|---------------|----------------------------|-------|-----|
| | | °C | °C | | V | mA | µA | | Height | Diameter | | ° | SMBus | PWM |
| Single pixel | MLX90614ESF-DAA-000 | -40 to 85 | -70 to 380 | Medical | 2.6 - 3.6 | <2 | <6 | T0-39 | 4.1 | 9.1 | 90 | ✓ | ✓ | |
| Single pixel, gradient compensated | MLX90614ESF-DCA-000 | -40 to 85 | -70 to 380 | Medical | 2.6 - 3.6 | <2 | <6 | T0-39 | 4.1 | 9.1 | 90 | ✓ | ✓ | |
| Single pixel, gradient compensated | MLX90614KSF-DCC-000 | -40 to 85 | -70 to 380 | Medical | 2.6 - 3.6 | <2 | <6 | T0-39 | 8.1 | 10.2 | 35 | ✓ | ✓ | |
| Single pixel, gradient compensated | MLX90614ESF-DCH-000 | -40 to 85 | -70 to 380 | Medical | 2.6 - 3.6 | <2 | <6 | T0-39 | 8.3 | 9.1 | 12 | ✓ | ✓ | |
| Single pixel, gradient compensated | MLX90614ESF-DCI-000 | -40 to 85 | -70 to 380 | Medical | 2.6 - 3.6 | <2 | <6 | T0-39 | 20.2 | 9.1 | 5 | ✓ | ✓ | |
| Single pixel, gradient compensated | MLX90632SLD-DCB-000 | -20 to 85 | -20 to 100 | Medical | 2.6 - 3.6 | <1.4 | <2.5 | QFN | 1 | 3x3 | 50 | | | ✓ |

Non-contact temperature sensors - multipixel arrays

| Type | Product | Operating temp. | Object temp | Factory calibrated accuracy | Supply Voltage | Supply current | Sleep current | Package | Dimensions (mm) | | Field of View | Output Type Plate Polarity | | |
|-------------|---------------------|-----------------|-------------|-----------------------------|----------------|----------------|---------------|---------|-----------------|----------|---------------|----------------------------|-------|-----|
| | | °C | °C | | V | mA | µA | | Height | Diameter | | ° | SMBus | PWM |
| 32x24 array | MLX90640ESF-BAA-000 | -40 to 85 | -40 to 300 | See datasheet | 2.9 - 3.6 | <25 | - | T0-39 | 5.7 | 9.3 | 110x75 | | | ✓ |
| 32x24 array | MLX90640ESF-BAB-000 | -40 to 85 | -40 to 300 | See datasheet | 2.9 - 3.6 | <25 | - | T0-39 | 11.25 | 9.3 | 55x35 | | | ✓ |
| 16x12 array | MLX90641ESF-BCA-000 | -40 to 85 | -40 to 300 | See datasheet | 3 - 3.6 | <14 | - | T0-39 | 5.7 | 9.3 | 110x75 | | | ✓ |
| 16x12 array | MLX90641ESF-BCB-000 | -40 to 85 | -40 to 300 | See datasheet | 3 - 3.6 | <14 | - | T0-39 | 11.25 | 9.3 | 55x35 | | | ✓ |
| 16x12 array | MLX90641KSF-BCA-000 | -40 to 125 | -40 to 300 | See datasheet | 3 - 3.6 | <14 | - | T0-39 | 5.7 | 9.3 | 110x75 | | | ✓ |
| 16x12 array | MLX90641KSF-BCB-000 | -40 to 125 | -40 to 300 | See datasheet | 3 - 3.6 | <14 | - | T0-39 | 11.25 | 9.3 | 55x35 | | | ✓ |



MLX90614ESF-AAA



MLX90615



MLX90621ESF-BAB



MLX90632