

MOSFET – Power, Single N-Channel 100 V, 5.1 mΩ, 108 A

NVMYS005N10MCL

Features

- Small Footprint (5x6 mm) for Compact Design
- Low R_{DS(on)} to Minimize Conduction Losses
- Low Q_G and Capacitance to Minimize Driver Losses
- AEC-Q101 Qualified and PPAP Capable
- These Devices are Pb-Free, Halogen Free/BFR Free, Beryllium Free and are RoHS Compliant

MAXIMUM RATINGS (T_{.I} = 25°C unless otherwise noted)

| Parameter | | | Symbol | Value | Unit |
|------------------------------------------------------------------------------------|----------------------------------------------------|------------------------|-----------------------------------|----------------|------|
| Drain-to-Source Voltage | | | V_{DSS} | 100 | V |
| Gate-to-Source Voltage | 9 | | V_{GS} | ±20 | V |
| Continuous Drain | | T _C = 25°C | I _D | 108 | Α |
| Current R _{0JC} (Note 1) | Steady | T _C = 100°C | | 76 | |
| Power Dissipation | State | T _C = 25°C | P_{D} | 131 | W |
| R _{θJC} (Note 1) | | T _C = 100°C | | 65 | |
| Continuous Drain | Steady State | T _A = 25°C | I _D | 18.4 | Α |
| Current R _{θJA} (Notes 1, 2) | | T _A = 100°C | | 13.0 | |
| Power Dissipation | | T _A = 25°C | P_{D} | 3.8 | W |
| R _{θJA} (Notes 1, 2) | | T _A = 100°C | | 1.9 | |
| Pulsed Drain Current | ain Current $T_A = 25^{\circ}C$, $t_p = 10 \mu s$ | | | 736 | Α |
| Operating Junction and Storage Temperature Range | | | T _J , T _{stg} | -55 to +175 | °C |
| Source Current (Body Diode) | | | I _S | 100 | Α |
| Single Pulse Drain-to-Source Avalanche Energy (I _{L(pk)} = 6.5 A) | | | E _{AS} | 365 | mJ |
| Lead Temperature Soldering Reflow for Soldering Purposes (1/8" from case for 10 s) | | | TL | 260 | °C |

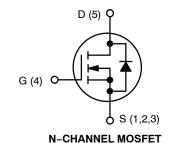
Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

THERMAL RESISTANCE RATINGS

| Parameter | Symbol | Value | Unit |
|---------------------------------------------|-----------------|-------|------|
| Junction-to-Case - Steady State (Note 1) | $R_{	heta JC}$ | 1.15 | °C/W |
| Junction-to-Ambient - Steady State (Note 2) | $R_{\theta JA}$ | 40 | |

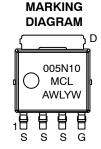
The entire application environment impacts the thermal resistance values shown, they are not constants and are only valid for the particular conditions noted.

| V _{(BR)DSS} | R _{DS(ON)} MAX | I _D MAX | |
|----------------------|-------------------------|--------------------|--|
| 100 V | 5.1 mΩ @ 10 V | 108 A | |
| | 7.1 mΩ @ 4.5 V | 108 A | |





LFPAK4 CASE 760AB



005N10MCL = Specific Device Code

A = Assembly Location

 WL
 = Wafer Lot

 Y
 = Year

 W
 = Work Week

ORDERING INFORMATION

See detailed ordering, marking and shipping information on page 5 of this data sheet.

^{2.} Surface-mounted on FR4 board using 1 in² pad size, 2 oz. Cu pad.

ELECTRICAL CHARACTERISTICS (T_J = 25°C unless otherwise specified)

| Parameter | Symbol | Test Condition | | Min | Тур | Max | Unit |
|--------------------------------------------------------------|-------------------------------------|------------------------------------------------------------------------|------------------------|-----|------|----------|-------|
| OFF CHARACTERISTICS | | | | | | | |
| Drain-to-Source Breakdown Voltage | V _{(BR)DSS} | $V_{GS} = 0 \text{ V}, I_D = 250 \mu\text{A}$ | | 100 | | | V |
| Drain-to-Source Breakdown Voltage Temperature Coefficient | V _{(BR)DSS} / | I _D = 250 μA, ref to 25°C | | | 52 | | mV/°C |
| Zero Gate Voltage Drain Current | I _{DSS} | V _{GS} = 0 V, | T _J = 25°C | | | 1 | μΑ |
| | | V _{DS} = 100 V | T _J = 125°C | | | 100 | 1 |
| Gate-to-Source Leakage Current | I _{GSS} | $V_{DS} = 0 \text{ V}, V_{GS}$ | _S = 20 V | | | 100 | nA |
| ON CHARACTERISTICS | | | | | | | |
| Gate Threshold Voltage | V _{GS(TH)} | $V_{GS} = V_{DS}, I_D =$ | = 192 μA | 1 | | 3 | ٧ |
| Threshold Temperature Coefficient | V _{GS(TH)} /T _J | I _D = 192 μA, ref | to 25°C | | -5.6 | | mV/°C |
| Drain-to-Source On Resistance | R _{DS(on)} | V _{GS} = 10 V, I _D | = 34 A | | 4.2 | 5.1 | mΩ |
| | | V _{GS} = 4.5 V, I _D | ₀ = 27 A | | 5.6 | 7.1 | |
| Forward Transconductance | 9 _{FS} | V _{DS} = 10 V, I _D | = 50 A | | 155 | | S |
| Gate-Resistance | R_{G} | T _A = 25°C | | | 0.85 | | Ω |
| CHARGES & CAPACITANCES | | | | 1 | | | |
| Input Capacitance | C _{ISS} | V _{GS} = 0 V, f = 1 MHz, V _{DS} = 50 V | | | 4100 | | pF |
| Output Capacitance | C _{OSS} | | | | 1350 | | 1 |
| Reverse Transfer Capacitance | C _{RSS} | | | | 22 | | |
| Total Gate Charge | Q _{G(TOT)} | V _{GS} = 4.5 V, V _{DS} = 50 V, I _D = 34 A | | | 26 | | nC |
| Total Gate Charge | Q _{G(TOT)} | V _{GS} = 10 V, V _{DS} = 50 V, I _D = 34 A | | | 55 | | nC |
| Gate-to-Source Charge | Q _{GS} | | | | 11 | | |
| Gate-to-Drain Charge | Q_{GD} | | | | 5 | | |
| Plateau Voltage | V_{GP} | | | | 3 | | ٧ |
| Threshold Gate Charge | Q _{G(TH)} | | | | 6 | | nC |
| SWITCHING CHARACTERISTICS (Note | 3) | | | 1 | | | |
| Turn-On Delay Time | t _{d(ON)} | V_{GS} = 10 V, V_{DS} = 50 V, I_{D} = 34 A, R_{G} = 6 Ω | | | 17 | | ns |
| Rise Time | t _r | I _D = 34 A, R _G | = 6 Ω | | 6.7 | | 1 |
| Turn-Off Delay Time | t _{d(OFF)} | | | | 57 | | |
| Fall Time | t _f | | | | 12.3 | | |
| DRAIN-SOURCE DIODE CHARACTER | STICS | | | ı | | | |
| Forward Diode Voltage | V_{SD} | V _{GS} = 0 V, I _S = 34 A | T _J = 25°C | | 0.85 | 1.3 | ٧ |
| | | | T _J = 125°C | | 0.73 | | |
| Reverse Recovery Time | t _{RR} | V_{GS} = 0 V, dI_S/dt = 100 A/ μ s, I_S = 17 A | | | 56 | | ns |
| Reverse Recovery Charge | Q _{RR} | | | | 54 | | nC |
| Charge Time | t _a | | | | 25 | | ns |
| Discharge Time | t _b | | | - | 31 | <u> </u> | ns |

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

3. Switching characteristics are independent of operating junction temperatures

TYPICAL CHARACTERISTICS

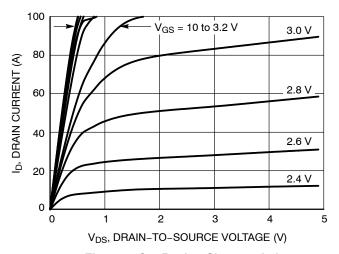


Figure 1. On-Region Characteristics

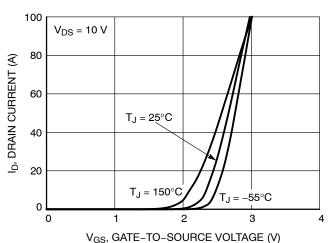


Figure 2. Transfer Characteristics

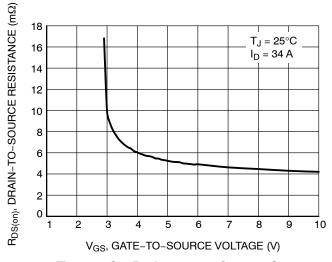


Figure 3. On-Resistance vs. Gate-to-Source Voltage

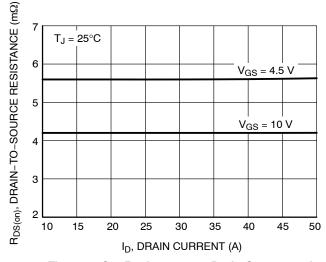


Figure 4. On-Resistance vs. Drain Current and Gate Voltage

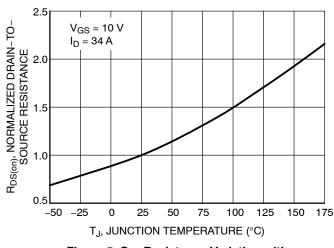


Figure 5. On–Resistance Variation with Temperature

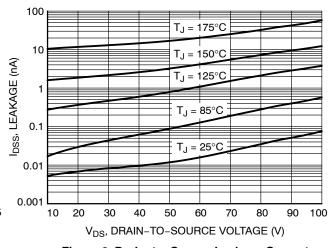


Figure 6. Drain-to-Source Leakage Current vs. Voltage

TYPICAL CHARACTERISTICS

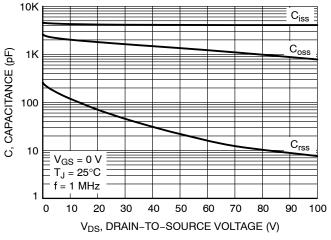


Figure 7. Capacitance Variation

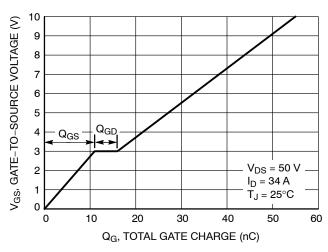


Figure 8. Gate-to-Source vs. Total Charge

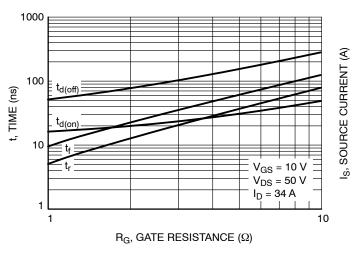


Figure 9. Resistive Switching Time Variation vs. Gate Resistance

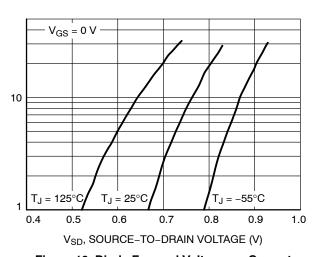


Figure 10. Diode Forward Voltage vs. Current

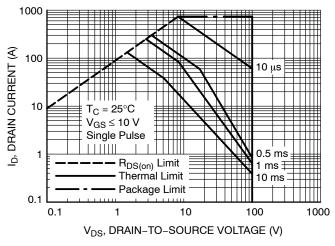


Figure 11. Maximum Rated Forward Biased Safe Operating Area

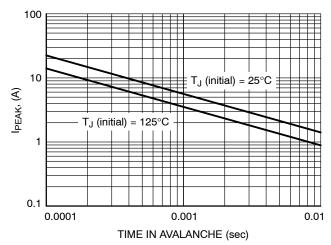


Figure 12. Maximum Drain Current vs. Time in Avalanche

TYPICAL CHARACTERISTICS

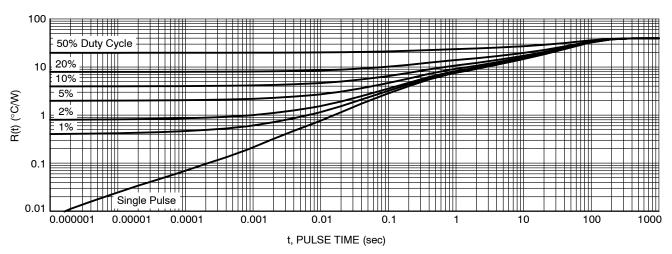


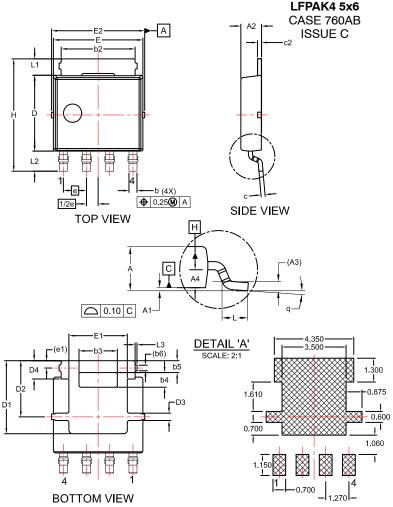
Figure 13. Thermal Response

DEVICE ORDERING INFORMATION

| Device | Marking | Package | Shipping [†] |
|-------------------|-----------|---------------------|-----------------------|
| NVMYS005N10MCLTWG | 005N10MCL | LFPAK4 (Pb-Free) | 3000 / Tape & Reel |

[†]For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

PACKAGE DIMENSIONS



RECOMMENDED LAND PATTERN

*FOR ADDITIONAL INFORMATION ON OUR PB-FREE STRATEGY AND SOLDERING DETAILS, PLEASE DOWNLOAD THE ON SEMICONDUCTOR SOLDERING AND MOUNTING TECHNIQUES REFERENCE MANUAL, SOLDERRM/D.

NOTES:

- DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
- CONTROLLING DIMENSION: MILLIMETERS.
- DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR BURRS. MOLD FLASH PROTRUSIONS OR GATE BURRS SHALL NOT EXCEED 0.150mm PER SIDE.
- 4. DIMENSIONS D AND E ARE DETERMINED AT THE OUTERMOST EXTREMES OF THE PLASTIC BODY.
- 5. DATUMS A AND B ARE DETERMINED AT DATUM PLANE H.

| DIM MIN NOM MAX A 1.10 1.20 1.30 A1 0.00 0.08 0.15 A2 1.10 1.15 1.20 A3 0.25 REF A4 0.45 0.50 0.55 b 0.40 0.45 0.50 b2 3.80 4.10 4.40 b3 2.00 2.10 2.20 b4 0.70 0.80 0.90 b5 0.55 0.65 0.75 b6 0.31 REF c 0.19 0.22 0.25 c2 0.19 0.22 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.20 0.22 0.25 0.25 0.25 0.25 0.20 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 | UNIT IN MILLIMETER | | | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------|----------|------|--|--|
| A 1.10 1.20 1.30 A1 0.00 0.08 0.15 A2 1.10 1.15 1.20 A3 0.25 REF A4 0.45 0.50 0.55 b 0.40 0.45 0.50 b2 3.80 4.10 4.40 b3 2.00 2.10 2.20 b4 0.70 0.80 0.90 b5 0.55 0.65 0.75 b6 0.31 REF C 0.19 0.22 0.25 c2 0.19 0.22 0.25 0.25 D 4.05 4.15 4.25 D1 3.80 4.00 4.20 D2 3.00 3.10 3.20 D3 0.30 0.40 0.50 E4 4.90 5.00 E1 3.10 3.20 3.30 E2 5.00 5.15 5.30 e 1.27 B | | | | | | |
| A1 0.00 0.08 0.15 A2 1.10 1.15 1.20 A3 0.25 REF A4 0.45 0.50 0.55 b 0.40 0.45 0.50 b2 3.80 4.10 4.40 b3 2.00 2.10 2.20 b4 0.70 0.80 0.90 b5 0.55 0.65 0.75 b6 0.31 REF c 0.19 0.22 0.25 c2 0.19 0.22 0.25 D 4.05 4.15 4.25 D1 3.80 4.00 4.20 D2 3.00 3.10 3.20 D3 0.30 0.40 0.50 D4 0.90 1.00 1.10 E 4.80 4.90 5.00 E1 3.10 3.20 3.30 E2 5.00 5.15 5.30 e | | | | | | |
| A2 1.10 1.15 1.20 A3 0.25 REF A4 0.45 0.50 0.55 b 0.40 0.45 0.50 b2 3.80 4.10 4.40 b3 2.00 2.10 2.20 b4 0.70 0.80 0.90 b5 0.55 0.65 0.75 b6 0.31 REF c 0.19 0.22 0.25 c2 0.19 0.22 0.25 D 4.05 4.15 4.25 D1 3.80 4.00 4.20 D2 3.00 3.10 3.20 D3 0.30 0.40 0.50 D4 0.90 1.00 1.10 E 4.80 4.90 5.00 E1 3.10 3.20 3.30 E2 5.00 5.15 5.30 e 1.27 BSC 1/2e 0.635 BSC | A1 | | | | | |
| A3 0.25 REF A4 0.45 0.50 0.55 b 0.40 0.45 0.50 b2 3.80 4.10 4.40 b3 2.00 2.10 2.20 b4 0.70 0.80 0.90 b5 0.55 0.65 0.75 b6 0.31 REF c 0.19 0.22 0.25 c2 0.19 0.22 0.25 D 4.05 4.15 4.25 D1 3.80 4.00 4.20 D2 3.00 3.10 3.20 D3 0.30 0.40 0.50 D4 0.90 1.00 1.10 E 4.80 4.90 5.00 E1 3.10 3.20 3.30 E2 5.00 5.15 5.30 e 1.27 BSC 1/2e 0.635 BSC e1 0.40 REF H 6 | | | | | | |
| b 0.40 0.45 0.50 b2 3.80 4.10 4.40 b3 2.00 2.10 2.20 b4 0.70 0.80 0.90 b5 0.55 0.65 0.75 b6 0.31 REF c 0.19 0.22 0.25 c2 0.19 0.22 0.25 D 4.05 4.15 4.25 D1 3.80 4.00 4.20 D2 3.00 3.10 3.20 D3 0.30 0.40 0.50 D4 0.90 1.00 1.10 E 4.80 4.90 5.00 E1 3.10 3.20 3.30 E2 5.00 5.15 5.30 e 1.27 BSC 1/2e 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.40 0.65 0.85 | A3 | |).25 REF | | | |
| b2 3.80 4.10 4.40 b3 2.00 2.10 2.20 b4 0.70 0.80 0.90 b5 0.55 0.65 0.75 b6 0.31 REF c 0.19 0.22 0.25 c2 0.19 0.22 0.25 D 4.05 4.15 4.25 D1 3.80 4.00 4.20 D2 3.00 3.10 3.20 D3 0.30 0.40 0.50 D4 0.90 1.00 1.10 E 4.80 4.90 5.00 E1 3.10 3.20 3.30 E2 5.00 5.15 5.30 e 1.27 BSC t1/2e 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.40 0.65 0.85 L1 0.80 0.90 1.00 | A4 | 0.45 | 0.50 | 0.55 | | |
| b3 2.00 2.10 2.20 b4 0.70 0.80 0.90 b5 0.55 0.65 0.75 b6 0.31 REF c 0.19 0.22 0.25 c2 0.19 0.22 0.25 D 4.05 4.15 4.25 D1 3.80 4.00 4.20 D2 3.00 3.10 3.20 D3 0.30 0.40 0.50 D4 0.90 1.00 1.10 E 4.80 4.90 5.00 E1 3.10 3.20 3.30 E2 5.00 5.15 5.30 e 1.27 BSC 1/2e 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.40 0.65 0.85 L1 0.80 0.90 1.00 L2 0.90 1.10 1.30 | b | 0.40 | 0.45 | 0.50 | | |
| b4 0.70 0.80 0.90 b5 0.55 0.65 0.75 b6 0.31 REF 0.22 0.25 c 0.19 0.22 0.25 c2 0.19 0.22 0.25 D 4.05 4.15 4.25 D1 3.80 4.00 4.20 D2 3.00 3.10 3.20 D3 0.30 0.40 0.50 D4 0.90 1.00 1.10 E 4.80 4.90 5.00 E1 3.10 3.20 3.30 E2 5.00 5.15 5.30 e 1.27 BSC 1/2e 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.40 0.65 0.85 L1 0.80 0.90 1.00 L2 0.90 1.10 1.30 L3 0.00 | b2 | 3.80 | 4.10 | 4.40 | | |
| b5 0.55 0.65 0.75 b6 0.31 REF c 0.19 0.22 0.25 c2 0.19 0.22 0.25 D 4.05 4.15 4.25 D1 3.80 4.00 4.20 D2 3.00 3.10 3.20 D3 0.30 0.40 0.50 D4 0.90 1.00 1.10 E 4.80 4.90 5.00 E1 3.10 3.20 3.30 E2 5.00 5.15 5.30 e 1.27 BSC 1/2e 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.40 0.65 0.85 L1 0.80 0.90 1.00 L2 0.90 1.10 1.30 L3 0.00 0.10 0.20 | b3 | 2.00 | 2.10 | 2.20 | | |
| b6 0.31 REF c 0.19 0.22 0.25 c2 0.19 0.22 0.25 D 4.05 4.15 4.25 D1 3.80 4.00 4.20 D2 3.00 3.10 3.20 D3 0.30 0.40 0.50 D4 0.90 1.00 1.10 E 4.80 4.90 5.00 E1 3.10 3.20 3.30 E2 5.00 5.15 5.30 e 1.27 BSC 1/2e 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.40 0.65 0.85 L1 0.80 0.90 1.00 L2 0.90 1.10 1.30 L3 0.00 0.10 0.20 | | 0.70 | 0.80 | 0.90 | | |
| C 0.19 0.22 0.25 c2 0.19 0.22 0.25 D 4.05 4.15 4.25 D1 3.80 4.00 4.20 D2 3.00 3.10 3.20 D3 0.30 0.40 0.50 D4 0.90 1.00 1.10 E 4.80 4.90 5.00 E1 3.10 3.20 3.30 E2 5.00 5.15 5.30 e 1.27 BSC 1/2e 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.40 0.65 0.85 L1 0.80 0.90 1.00 L2 0.90 1.10 1.30 L3 0.00 0.10 0.20 | b5 | | | | | |
| c2 0.19 0.22 0.25 D 4.05 4.15 4.25 D1 3.80 4.00 4.20 D2 3.00 3.10 3.20 D3 0.30 0.40 0.50 D4 0.90 1.00 1.10 E 4.80 4.90 5.00 E1 3.10 3.20 3.30 E2 5.00 5.15 5.30 e 1.27 BSC 1/2e 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.40 0.65 0.85 L1 0.80 0.90 1.00 L2 0.90 1.10 1.30 L3 0.00 0.10 0.20 | | | 0.31 RE | | | |
| D 4.05 4.15 4.25 D1 3.80 4.00 4.20 D2 3.00 3.10 3.20 D3 0.30 0.40 0.50 D4 0.90 1.00 1.10 E 4.80 4.90 5.00 E1 3.10 3.20 3.30 E2 5.00 5.15 5.30 e 1.27 BSC 1/2e 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.40 0.65 0.85 L1 0.80 0.90 1.00 L2 0.90 1.10 1.30 L3 0.00 0.10 0.20 | | | | | | |
| D1 3.80 4.00 4.20 D2 3.00 3.10 3.20 D3 0.30 0.40 0.50 D4 0.90 1.00 1.10 E 4.80 4.90 5.00 E1 3.10 3.20 3.30 E2 5.00 5.15 5.30 e 1.27 BSC 1/2e 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.40 0.65 0.85 L1 0.80 0.90 1.00 L2 0.90 1.10 1.30 L3 0.00 0.10 0.20 | | | | | | |
| D2 3.00 3.10 3.20 D3 0.30 0.40 0.50 D4 0.90 1.00 1.10 E 4.80 4.90 5.00 E1 3.10 3.20 3.30 E2 5.00 5.15 5.30 e 1.27 BSC 1/2e 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.40 0.65 0.85 L1 0.80 0.90 1.00 L2 0.90 1.10 1.30 L3 0.00 0.10 0.20 | D | 4.05 | 4.15 | 4.25 | | |
| D3 0.30 0.40 0.50 D4 0.90 1.00 1.10 E 4.80 4.90 5.00 E1 3.10 3.20 3.30 E2 5.00 5.15 5.30 e 1.27 BSC 1/2e 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.40 0.65 0.85 L1 0.80 0.90 1.00 L2 0.90 1.10 1.30 L3 0.00 0.10 0.20 | | 3.80 | 4.00 | | | |
| D4 0.90 1.00 1.10 E 4.80 4.90 5.00 E1 3.10 3.20 3.30 E2 5.00 5.15 5.30 e 1.27 BSC 1/2e 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.40 0.65 0.85 L1 0.80 0.90 1.00 L2 0.90 1.10 1.30 L3 0.00 0.10 0.20 | | 3.00 | 3.10 | 3.20 | | |
| E 4.80 4.90 5.00 E1 3.10 3.20 3.30 E2 5.00 5.15 5.30 e 1.27 BSC 1/2e 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.40 0.65 0.85 L1 0.80 0.90 1.00 L2 0.90 1.10 1.30 L3 0.00 0.10 0.20 | D3 | 0.30 | 0.40 | | | |
| E1 3.10 3.20 3.30 E2 5.00 5.15 5.30 e 1.27 BSC 1/2e 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.40 0.65 0.85 L1 0.80 0.90 1.00 L2 0.90 1.10 1.30 L3 0.00 0.10 0.20 | D4 | 0.90 | | 1.10 | | |
| E2 5.00 5.15 5.30 e 1.27 BSC 1/2e 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.40 0.65 0.85 L1 0.80 0.90 1.00 L2 0.90 1.10 1.30 L3 0.00 0.10 0.20 | П | 4.80 | 4.90 | | | |
| e 1.27 BSC 1/2e 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.40 0.65 0.85 L1 0.80 0.90 1.00 L2 0.90 1.10 1.30 L3 0.00 0.10 0.20 | | 3.10 | 3.20 | 3.30 | | |
| 1/2e 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.40 0.65 0.85 L1 0.80 0.90 1.00 L2 0.90 1.10 1.30 L3 0.00 0.10 0.20 | E2 | | | | | |
| e1 0.40 REF H 6.00 6.15 6.30 L 0.40 0.65 0.85 L1 0.80 0.90 1.00 L2 0.90 1.10 1.30 L3 0.00 0.10 0.20 | | | | | | |
| H 6.00 6.15 6.30 L 0.40 0.65 0.85 L1 0.80 0.90 1.00 L2 0.90 1.10 1.30 L3 0.00 0.10 0.20 | _ | | | | | |
| L 0.40 0.65 0.85 L1 0.80 0.90 1.00 L2 0.90 1.10 1.30 L3 0.00 0.10 0.20 | | 0.40 REF | | | | |
| L1 0.80 0.90 1.00 L2 0.90 1.10 1.30 L3 0.00 0.10 0.20 | | | | 6.30 | | |
| L2 0.90 1.10 1.30 L3 0.00 0.10 0.20 | | | | | | |
| L3 0.00 0.10 0.20 | | | | | | |
| | | | | | | |
| q 0° 4° 8° | L3 | | | 0.20 | | |
| | q | 0° | 4° | 8° | | |

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