

# MOSFET – Power, Single N-Channel

40 V, 5.3 mΩ, 71 A

## **NVMYS5D3N04C**

#### **Features**

- Small Footprint (5x6 mm) for Compact Design
- Low R<sub>DS(on)</sub> to Minimize Conduction Losses
- Low Q<sub>G</sub> and Capacitance to Minimize Driver Losses
- LFPAK4 Package, Industry Standard
- AEC-Q101 Qualified and PPAP Capable
- These Devices are Pb-Free and are RoHS Compliant

#### MAXIMUM RATINGS (T<sub>J</sub> = 25°C unless otherwise noted)

Symbol	Parameter			Value	Unit
V <sub>DSS</sub>	Drain-to-Source Voltag	е		40	V
V <sub>GS</sub>	Gate-to-Source Voltage	Э		±20	V
I <sub>D</sub>			T <sub>C</sub> = 25°C	71	Α
	Current R <sub>0JC</sub> (Notes 1, 3)	Steady	T <sub>C</sub> = 100°C	50	
P <sub>D</sub>	Power Dissipation	State	T <sub>C</sub> = 25°C	50	W
	R <sub>θJC</sub> (Note 1)		T <sub>C</sub> = 100°C	25	
I <sub>D</sub>	Continuous Drain		T <sub>A</sub> = 25°C	19	Α
	Current R <sub>0JA</sub> (Notes 1, 2, 3)	Steady	T <sub>A</sub> = 100°C	13	
P <sub>D</sub>	Power Dissipation	State	T <sub>A</sub> = 25°C	3.6	W
	R <sub>θJA</sub> (Notes 1 & 2)		T <sub>A</sub> = 100°C	1.8	
I <sub>DM</sub>	Pulsed Drain Current	$T_A = 25$	°C, t <sub>p</sub> = 10 μs	352	Α
T <sub>J</sub> , T <sub>stg</sub>	Operating Junction and Storage Temperature			–55 to + 175	°C
I <sub>S</sub>	Source Current (Body Diode)			42	Α
E <sub>AS</sub>	Single Pulse Drain-to-Source Avalanche Energy (I <sub>L(pk)</sub> = 4.6 A)			1667	mJ
TL	Lead Temperature for Soldering Purposes (1/8" from case for 10 s)			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 MAXIMUM RATINGS

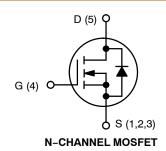
Symbol	Parameter	Value	Unit
$R_{\theta JC}$	Junction-to-Case - Steady State		°C/W
$R_{\theta JA}$	Junction-to-Ambient - Steady State (Note 2)		

- The entire application environment impacts the thermal resistance values shown, they are not constants and are only valid for the particular conditions noted.
- 2. Surface-mounted on FR4 board using a 650 mm<sup>2</sup>, 2 oz. Cu pad.
- Maximum current for pulses as long as 1 second is higher but is dependent on pulse duration and duty cycle.

V <sub>(BR)DSS</sub>	R <sub>DS(ON)</sub> MAX	I <sub>D</sub> MAX		
40 V	5.3 m $\Omega$ @ 10 V	71 A		



LFPAK4 CASE 760AB



#### **MARKING DIAGRAM**



5D3N04C = Specific Device Code A = Assembly Location

WL = Wafer Lot
 Y = Year
 W = Work Week

#### **ORDERING INFORMATION**

See detailed ordering, marking and shipping information in the package dimensions section on page 5 of this data sheet.

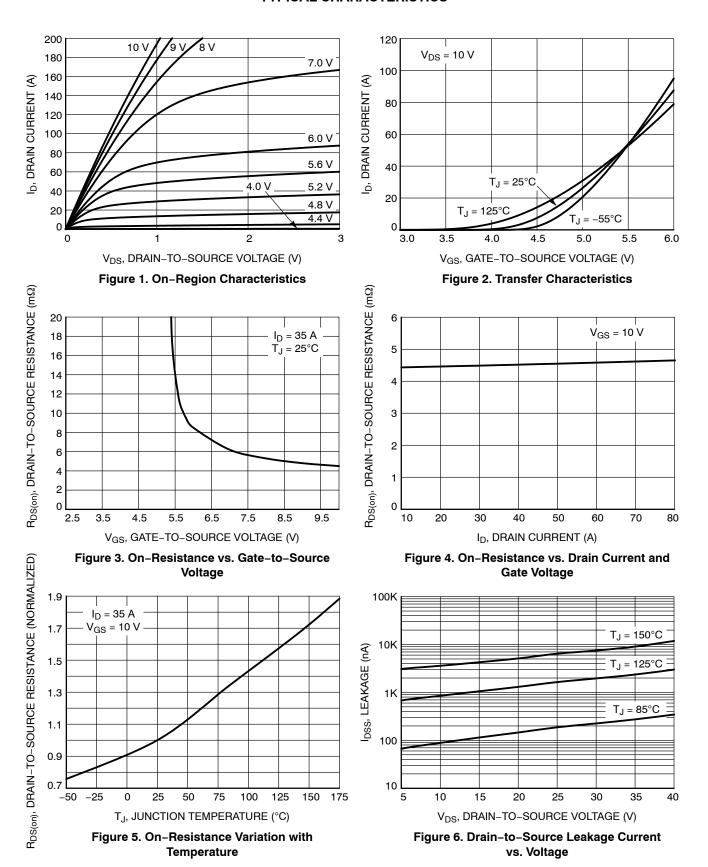
### **ELECTRICAL CHARACTERISTICS** ( $T_J = 25^{\circ}C$ unless otherwise specified)

Symbol	Parameter	Test Cond	Test Condition		Тур	Max	Unit
OFF CHAR/	ACTERISTICS						•
V <sub>(BR)DSS</sub>	Drain-to-Source Breakdown Voltage	$V_{GS} = 0 \text{ V}, I_D$	$V_{GS} = 0 \text{ V}, I_D = 250 \mu\text{A}$				V
V <sub>(BR)DSS</sub> / T <sub>J</sub>	Drain-to-Source Breakdown Voltage Temperature Coefficient				22		mV/°C
I <sub>DSS</sub>	Zero Gate Voltage Drain Current	V <sub>GS</sub> = 0 V,	T <sub>J</sub> = 25 °C			10	
		V <sub>DS</sub> = 40 V	T <sub>J</sub> = 125°C			250	μΑ
$I_{GSS}$	Gate-to-Source Leakage Current	V <sub>DS</sub> = 0 V, V <sub>G</sub>	<sub>S</sub> = 20 V			100	nA
ON CHARA	CTERISTICS (Note 4)						
V <sub>GS(TH)</sub>	Gate Threshold Voltage	V <sub>GS</sub> = V <sub>DS</sub> , I <sub>E</sub>	) = 40 μΑ	2.5		3.5	V
V <sub>GS(TH)</sub> /T <sub>J</sub>	Threshold Temperature Coefficient				-8.0		mV/°C
R <sub>DS(on)</sub>	Drain-to-Source On Resistance	V <sub>GS</sub> = 10 V	I <sub>D</sub> = 35 A		4.4	5.3	mΩ
9FS	Forward Transconductance	V <sub>DS</sub> =15 V, I	<sub>D</sub> = 35 A		53		S
CHARGES,	CAPACITANCES & GATE RESISTANCE					•	•
C <sub>ISS</sub>	Input Capacitance				1000		
C <sub>OSS</sub>	Output Capacitance	V <sub>GS</sub> = 0 V, f = 1 MH	V <sub>GS</sub> = 0 V, f = 1 MHz, V <sub>DS</sub> = 25 V		530		рF
C <sub>RSS</sub>	Reverse Transfer Capacitance				22		1
Q <sub>G(TOT)</sub>	Total Gate Charge				16		
Q <sub>G(TH)</sub>	Threshold Gate Charge				3.2		
Q <sub>GS</sub>	Gate-to-Source Charge	V <sub>GS</sub> = 10 V, V <sub>DS</sub> =	V <sub>GS</sub> = 10 V, V <sub>DS</sub> = 32 V; I <sub>D</sub> = 35 A		5.7		nC
$Q_{GD}$	Gate-to-Drain Charge				2.7		1
$V_{GP}$	Plateau Voltage		7		5.2		V
SWITCHING	CHARACTERISTICS (Note 5)	•			•	•	•
t <sub>d(ON)</sub>	Turn-On Delay Time				11		
t <sub>r</sub>	Rise Time	V <sub>GS</sub> = 10 V. V <sub>I</sub>	ne = 32 V.		72		1
t <sub>d(OFF)</sub>	Turn-Off Delay Time	I <sub>D</sub> = 35 A, R	$V_{GS} = 10 \text{ V}, V_{DS} = 32 \text{ V},$ $I_D = 35 \text{ A}, R_G = 1 \Omega$		24		ns
t <sub>f</sub>	Fall Time	7			8.0		1
DRAIN-SOL	JRCE DIODE CHARACTERISTICS	•			•	•	•
$V_{SD}$	Forward Diode Voltage	V <sub>G9</sub> = 0 V.	$V_{GS} = 0 \text{ V}$ , $T_{J} = 25^{\circ}\text{C}$		0.87	1.2	,,,
		$V_{GS} = 0 \text{ V},$ $I_{S} = 35 \text{ A}$	T <sub>J</sub> = 125°C		0.75		V
t <sub>RR</sub>	Reverse Recovery Time		V <sub>GS</sub> = 0 V, dIs/dt = 100 A/μs, I <sub>S</sub> = 35 A		36		
t <sub>a</sub>	Charge Time	$V_{GS} = 0 \text{ V. dls/dt}$			17		ns
t <sub>b</sub>	Discharge Time				18		1
		<del></del>					<b>!</b>

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. 4. Pulse Test: pulse width  $\leq$  300  $\mu$ s, duty cycle  $\leq$  2%.

<sup>5.</sup> Switching characteristics are independent of operating junction temperatures.

#### **TYPICAL CHARACTERISTICS**



#### TYPICAL CHARACTERISTICS (continued)

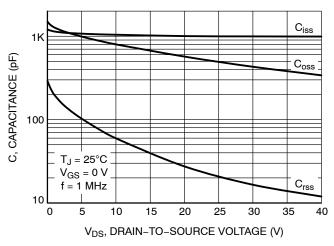


Figure 7. Capacitance Variation

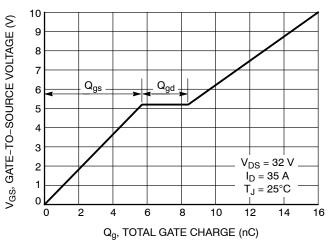


Figure 8. Gate-to-Source Voltage vs. Total Charge

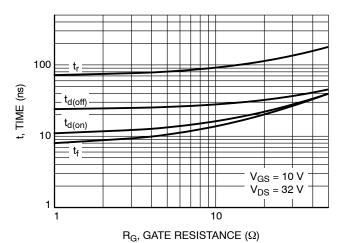


Figure 9. Resistive Switching Time Variation vs. Gate Resistance

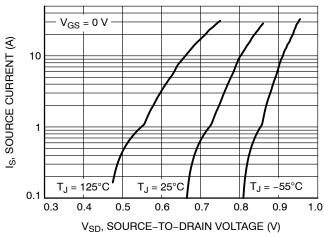


Figure 10. Diode Forward Voltage vs. Current

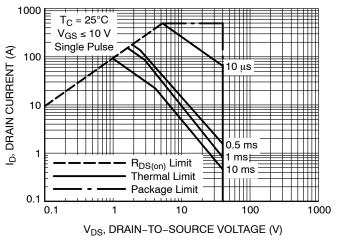


Figure 11. Maximum Rated Forward Biased Safe Operating Area

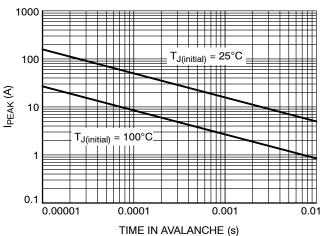


Figure 12. Maximum Drain Current vs. Time in Avalanche

#### TYPICAL CHARACTERISTICS (continued)

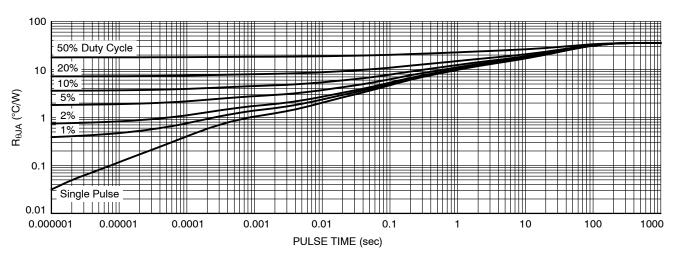


Figure 13. Thermal Characteristics

#### **DEVICE ORDERING INFORMATION**

Device	Marking	Package	Shipping <sup>†</sup>
NVMYS5D3N04CTWG	5D3N04C	LFPAK4 (Pb-Free)	3,000 / Tape & Reel

<sup>†</sup>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.

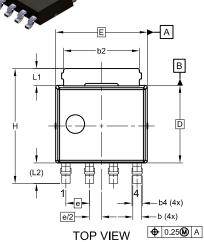


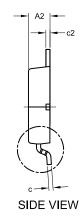
### LFPAK4 4.90x4.15x1.15MM, 1.27P CASE 760AB

ISSUE D

1.30

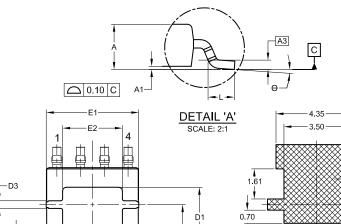
**DATE 22 MAY 2024** 





#### NOTES:

- DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
- CONTROLLING DIMENSION: MILLIMETERS.
- 3. 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.



D4

(D8)

-	1.61
1	0.70
	↑
,	1.15
	0.70 -   -   1.27   -
	RECOMMENDED LAND PATTERN
	*FOR ADDITIONAL INFORMATION ON OUR
	PB-FREE STRATEGY AND SOLDERING
	I B THEE OH WILLIAM GOLDLINIA

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

# GENERIC MARKING DIAGRAM\*

**BOTTOM VIEW** 

D5

D6 (D7)

XXXXXX XXXXXX AWLYW XXXXXX = Specific Device Code A = Assembly Location

WL = Wafer Lot Y = Year W = Work Week

\*This information is generic. Please refer to device data sheet for actual part marking. Some products may not follow the Generic Marking.

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 BSC         0.50           b         0.40         0.45         0.50           b2         3.80         4.10         4.40           b4         0.45         0.55         0.65           c         0.19         0.22         0.25           c2         0.19         0.22         0.25           D         4.15 BSC         0.20         0.25           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           D5         0.70         0.80         0.90           D6         0.55         0.65         0.75           D7         0.31 REF           D8         0.40 REF           E         4.90 BSC           E1         4.85         4.95 <td< th=""><th colspan="6">MILLIMETER</th></td<>	MILLIMETER						
A1       0.00       0.08       0.15         A2       1.10       1.15       1.20         A3       0.25 BSC         b       0.40       0.45       0.50         b2       3.80       4.10       4.40         b4       0.45       0.55       0.65         c       0.19       0.22       0.25         c2       0.19       0.22       0.25         D       4.15 BSC         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         D5       0.70       0.80       0.90         D6       0.55       0.65       0.75         D7       0.31 REF         D8       0.40 REF         E       4.90 BSC         E1       4.85       4.95       5.05         E2       3.10       3.20       3.30         E3       0.00       0.10       0.20         E4       2.00       2.10       2.20         e       1.27 BSC         e/2<	DIM MIN NOM MAX						
A2       1.10       1.15       1.20         A3       0.25 BSC         b       0.40       0.45       0.50         b2       3.80       4.10       4.40         b4       0.45       0.55       0.65         c       0.19       0.22       0.25         c2       0.19       0.22       0.25         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         D5       0.70       0.80       0.90         D6       0.55       0.65       0.75         D7       0.31 REF         D8       0.40 REF         E       4.90 BSC         E1       4.85       4.95       5.05         E2       3.10       3.20       3.30         E3       0.00       0.10       0.20         E4       2.00       2.10       2.20         e       1.27 BSC         e/2       0.635 BSC         e1       0.40 REF         H       6.00	Α	1.10	1.20	1.30			
A3	A1	0.00	0.08	0.15			
b         0.40         0.45         0.50           b2         3.80         4.10         4.40           b4         0.45         0.55         0.65           c         0.19         0.22         0.25           c2         0.19         0.22         0.25           D         4.15 BSC           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           D5         0.70         0.80         0.90           D6         0.55         0.65         0.75           D7         0.31 REF           B8         0.40 REF           E         4.90 BSC           E1         4.85         4.95         5.05           E2         3.10         3.20         3.30           E3         0.00         0.10         0.20           E4         2.00         2.10         2.20           e         1.27 BSC           e/2         0.635 BSC           e1         0.40 REF	A2	1.10	1.15	1.20			
b2       3.80       4.10       4.40         b4       0.45       0.55       0.65         c       0.19       0.22       0.25         c2       0.19       0.22       0.25         D       4.15 BSC         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         D5       0.70       0.80       0.90         D6       0.55       0.65       0.75         D7       0.31 REF         D8       0.40 REF         E       4.90 BSC         E1       4.85       4.95       5.05         E2       3.10       3.20       3.30         E3       0.00       0.10       0.20         E4       2.00       2.10       2.20         e       1.27 BSC         e/2       0.635 BSC         e1       0.40 REF         H       6.00       6.15       6.30         L       0.50       0.70       0.90         L1       0.80       0	Α3	(	).25 BSC				
b4         0.45         0.55         0.65           c         0.19         0.22         0.25           c2         0.19         0.22         0.25           D         4.15 BSC           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           D5         0.70         0.80         0.90           D6         0.55         0.65         0.75           D7         0.31 REF           D8         0.40 REF           E         4.90 BSC           E1         4.85         4.95         5.05           E2         3.10         3.20         3.30           E3         0.00         0.10         0.20           E4         2.00         2.10         2.20           e         1.27 BSC           e/2         0.635 BSC           e1         0.40 REF           H         6.00         6.15         6.30           L         0.50         0.70         0.90	b	0.40	0.45	0.50			
C         0.19         0.22         0.25           c2         0.19         0.22         0.25           D         4.15 BSC           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           D5         0.70         0.80         0.90           D6         0.55         0.65         0.75           D7         0.31 REF           D8         0.40 REF           E         4.90 BSC           E1         4.85         4.95         5.05           E2         3.10         3.20         3.30           E3         0.00         0.10         0.20           E4         2.00         2.10         2.20           e         1.27 BSC           e/2         0.635 BSC           e1         0.40 REF           H         6.00         6.15         6.30           L         0.50         0.70         0.90           L1         0.80         0.90         1.00	b2	3.80	4.10	4.40			
C2         0.19         0.22         0.25           D         4.15 BSC           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           D5         0.70         0.80         0.90           D6         0.55         0.65         0.75           D7         0.31 REF           D8         0.40 REF           E         4.90 BSC           E1         4.85         4.95         5.05           E2         3.10         3.20         3.30           E3         0.00         0.10         0.20           E4         2.00         2.10         2.20           e         1.27 BSC           e/2         0.635 BSC           e1         0.40 REF           H         6.00         6.15         6.30           L         0.50         0.70         0.90           L1         0.80         0.90         1.00           L2         1.10 REF         1.10 REF	b4		0.55				
D         4.15 BSC           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           D5         0.70         0.80         0.90           D6         0.55         0.65         0.75           D7         0.31 REF           D8         0.40 REF           E         4.90 BSC           E1         4.85         4.95         5.05           E2         3.10         3.20         3.30           E3         0.00         0.10         0.20           E4         2.00         2.10         2.20           e         1.27 BSC           e/2         0.635 BSC           e1         0.40 REF           H         6.00         6.15         6.30           L         0.50         0.70         0.90           L1         0.80         0.90         1.00           L2         1.10 REF	C	0.19		0.25			
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           D5         0.70         0.80         0.90           D6         0.55         0.65         0.75           D7         0.31 REF           D8         0.40 REF           E         4.90 BSC           E1         4.85         4.95         5.05           E2         3.10         3.20         3.30           E3         0.00         0.10         0.20           E4         2.00         2.10         2.20           e         1.27 BSC           e/2         0.635 BSC           e1         0.40 REF           H         6.00         6.15         6.30           L         0.50         0.70         0.90           L1         0.80         0.90         1.00           L2         1.10 REF							
D2         3.00         3.10         3.20           D3         0.30         0.40         0.50           D4         0.90         1.00         1.10           D5         0.70         0.80         0.90           D6         0.55         0.65         0.75           D7         0.31 REF           D8         0.40 REF           E         4.90 BSC           E1         4.85         4.95         5.05           E2         3.10         3.20         3.30           E3         0.00         0.10         0.20           E4         2.00         2.10         2.20           e         1.27 BSC           e/2         0.635 BSC           e1         0.40 REF           H         6.00         6.15         6.30           L         0.50         0.70         0.90           L1         0.80         0.90         1.00           L2         1.10 REF		4	4.15 BS	2			
D3         0.30         0.40         0.50           D4         0.90         1.00         1.10           D5         0.70         0.80         0.90           D6         0.55         0.65         0.75           D7         0.31 REF           D8         0.40 REF           E         4.90 BSC           E1         4.85         4.95         5.05           E2         3.10         3.20         3.30           E3         0.00         0.10         0.20           E4         2.00         2.10         2.20           e         1.27 BSC           e/2         0.635 BSC           e1         0.40 REF           H         6.00         6.15         6.30           L         0.50         0.70         0.90           L1         0.80         0.90         1.00           L2         1.10 REF	D1	3.80	4.00	4.20			
D4         0.90         1.00         1.10           D5         0.70         0.80         0.90           D6         0.55         0.65         0.75           D7         0.31 REF           D8         0.40 REF           E         4.90 BSC           E1         4.85         4.95         5.05           E2         3.10         3.20         3.30           E3         0.00         0.10         0.20           E4         2.00         2.10         2.20           e         1.27 BSC           e/2         0.635 BSC           e1         0.40 REF           H         6.00         6.15         6.30           L         0.50         0.70         0.90           L1         0.80         0.90         1.00           L2         1.10 REF	D2	3.00	3.10	3.20			
D5         0.70         0.80         0.90           D6         0.55         0.65         0.75           D7         0.31 REF           D8         0.40 REF           E         4.90 BSC           E1         4.85         4.95         5.05           E2         3.10         3.20         3.30           E3         0.00         0.10         0.20           E4         2.00         2.10         2.20           e         1.27 BSC           e/2         0.635 BSC           e1         0.40 REF           H         6.00         6.15         6.30           L         0.50         0.70         0.90           L1         0.80         0.90         1.00           L2         1.10 REF	D3	0.30	0.40	0.50			
D6         0.55         0.65         0.75           D7         0.31 REF           D8         0.40 REF           E         4.90 BSC           E1         4.85         4.95         5.05           E2         3.10         3.20         3.30           E3         0.00         0.10         0.20           E4         2.00         2.10         2.20           e         1.27 BSC           e/2         0.635 BSC           e1         0.40 REF           H         6.00         6.15         6.30           L         0.50         0.70         0.90           L1         0.80         0.90         1.00           L2         1.10 REF	D4	0.90	1.00	1.10			
D7       0.31 REF         D8       0.40 REF         E       4.90 BSC         E1       4.85       4.95       5.05         E2       3.10       3.20       3.30         E3       0.00       0.10       0.20         E4       2.00       2.10       2.20         e       1.27 BSC         e/2       0.635 BSC         e1       0.40 REF         H       6.00       6.15       6.30         L       0.50       0.70       0.90         L1       0.80       0.90       1.00         L2       1.10 REF	D5	0.70	0.80	0.90			
D8       0.40 REF         E       4.90 BSC         E1       4.85       4.95       5.05         E2       3.10       3.20       3.30         E3       0.00       0.10       0.20         E4       2.00       2.10       2.20         e       1.27 BSC         e/2       0.635 BSC         e1       0.40 REF         H       6.00       6.15       6.30         L       0.50       0.70       0.90         L1       0.80       0.90       1.00         L2       1.10 REF	D6	0.55	0.65	0.75			
E	D7		0.31 REI	F			
E1     4.85     4.95     5.05       E2     3.10     3.20     3.30       E3     0.00     0.10     0.20       E4     2.00     2.10     2.20       e     1.27 BSC       e/2     0.635 BSC       e1     0.40 REF       H     6.00     6.15     6.30       L     0.50     0.70     0.90       L1     0.80     0.90     1.00       L2     1.10 REF	D8		0.40 REI	F			
E2       3.10       3.20       3.30         E3       0.00       0.10       0.20         E4       2.00       2.10       2.20         e       1.27 BSC         e/2       0.635 BSC         e1       0.40 REF         H       6.00       6.15       6.30         L       0.50       0.70       0.90         L1       0.80       0.90       1.00         L2       1.10 REF		4	4.90 BS	0			
E3     0.00     0.10     0.20       E4     2.00     2.10     2.20       e     1.27 BSC       e/2     0.635 BSC       e1     0.40 REF       H     6.00     6.15     6.30       L     0.50     0.70     0.90       L1     0.80     0.90     1.00       L2     1.10 REF		4.85	4.95	5.05			
E4 2.00 2.10 2.20 e 1.27 BSC e/2 0.635 BSC e1 0.40 REF H 6.00 6.15 6.30 L 0.50 0.70 0.90 L1 0.80 0.90 1.00 L2 1.10 REF	E2	3.10	3.20	3.30			
e     1.27 BSC       e/2     0.635 BSC       e1     0.40 REF       H     6.00     6.15     6.30       L     0.50     0.70     0.90       L1     0.80     0.90     1.00       L2     1.10 REF	E3	0.00					
e     1.27 BSC       e/2     0.635 BSC       e1     0.40 REF       H     6.00     6.15     6.30       L     0.50     0.70     0.90       L1     0.80     0.90     1.00       L2     1.10 REF	E4			2.20			
e1     0.40 REF       H     6.00     6.15     6.30       L     0.50     0.70     0.90       L1     0.80     0.90     1.00       L2     1.10 REF	е	1.27 BSC					
H 6.00 6.15 6.30 L 0.50 0.70 0.90 L1 0.80 0.90 1.00 L2 1.10 REF	e/2						
L 0.50 0.70 0.90 L1 0.80 0.90 1.00 L2 1.10 REF							
L1 0.80 0.90 1.00 L2 1.10 REF							
L2 1.10 REF	L						
L2       1.10 REF         Θ       0°       4°       8°	L1						
Θ 0° 4° 8°		1.10 REF					
	θ	0°	4°	8°			

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