

# **MOSFET** - Power, Single **N-Channel**

40 V, 8.1 mΩ, 49 A

## **NVMYS8D0N04C**

#### **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	ge		40	V
V <sub>GS</sub>	Gate-to-Source Voltag	е		±20	V
I <sub>D</sub>	Continuous Drain Current Raic	Steady State	T <sub>C</sub> = 25°C	49	Α
	(Notes 1, 3)	State	T <sub>C</sub> = 100°C	35	
P <sub>D</sub>	Power Dissipation		T <sub>C</sub> = 25°C	38	W
	R <sub>θJC</sub> (Note 1)		T <sub>C</sub> = 100°C	19	
I <sub>D</sub>	Continuous Drain Current R <sub>0.IA</sub>	Steady State	T <sub>A</sub> = 25°C	16	Α
	(Notes 1, 2, 3)	State	T <sub>A</sub> = 100°C	11	
P <sub>D</sub>	Power Dissipation				W
	R <sub>θJA</sub> (Notes 1, 2)		T <sub>A</sub> = 100°C	1.9	
I <sub>DM</sub>	Pulsed Drain Current	T <sub>A</sub> = 25	°C, t <sub>p</sub> = 10 μs	255	Α
T <sub>J</sub> , T <sub>stg</sub>	Operating Junction and Storage Temperature Range			-55 to +175	ç
I <sub>S</sub>	Source Current (Body Diode)			31	Α
E <sub>AS</sub>	Single Pulse Drain-to-Source Avalanche Energy (I <sub>L(pk)</sub> = 2.9 A)			81	mJ
T <sub>L</sub>	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

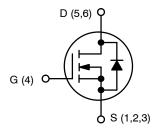
Symbol	Parameter	Value	Unit
$R_{\theta JC}$	Junction-to-Case - Steady State		°C/W
$R_{\theta JA}$	R <sub>0JA</sub> Junction-to-Ambient - Steady State (Note 2)		

- 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 mm², 2 oz. Cu pad.
- 3. 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	8.1 mΩ @ 10 V	49 A	



LFPAK4 CASE 760AB



**N-CHANNEL MOSFET** 

#### MARKING DIAGRAM



8D0N04C = Specific Device Code = Assembly Location Α =Wafer Lot

= Year W = Work Week

WL

#### **ORDERING INFORMATION**

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

#### **ELECTRICAL CHARACTERISTICS** (T<sub>J</sub> = 25°C unless otherwise specified)

Symbol	Parameter	Test Cond	dition	Min	Тур	Max	Unit
OFF CHAR	ACTERISTICS	•					
V <sub>(BR)DSS</sub>	Drain-to-Source Breakdown Voltage	V <sub>GS</sub> = 0 V, I <sub>D</sub>	= 250 μΑ	40			V
V <sub>(BR)DSS</sub> /	Drain-to-Source Breakdown Voltage Temperature Coefficient				23		mV/°C
I <sub>DSS</sub>	Zero Gate Voltage Drain Current	V <sub>GS</sub> = 0 V,	T <sub>J</sub> = 25 °C			10	μΑ
		V <sub>DS</sub> = 40 V	T <sub>J</sub> = 125°C			250	
$I_{GSS}$	Gate-to-Source Leakage Current	V <sub>DS</sub> = 0 V, V <sub>G</sub>	<sub>iS</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>	) = 30 μΑ	2.5		3.5	V
V <sub>GS(TH)</sub> /T <sub>J</sub>	Threshold Temperature Coefficient				-7		mV/°C
R <sub>DS(on)</sub>	Drain-to-Source On Resistance	V <sub>GS</sub> = 10 V	I <sub>D</sub> = 15 A		6.7	8.1	mΩ
9FS	Forward Transconductance	V <sub>DS</sub> =15 V, I	<sub>D</sub> = 15 A		29		S
CHARGES,	CAPACITANCES & GATE RESISTANCE			•	•	•	
C <sub>ISS</sub>	Input Capacitance	V <sub>GS</sub> = 0 V, f = 1 MH	Hz, V <sub>DS</sub> = 25 V		625		pF
Coss	Output Capacitance				335		1
C <sub>RSS</sub>	Reverse Transfer Capacitance				15		
Q <sub>G(TOT)</sub>	Total Gate Charge	V <sub>GS</sub> = 10 V, V <sub>DS</sub> =	32 V; I <sub>D</sub> = 15 A		10		nC
Q <sub>G(TH)</sub>	Threshold Gate Charge				2.2		nC
Q <sub>GS</sub>	Gate-to-Source Charge				3.5		
$Q_{GD}$	Gate-to-Drain Charge				1.8		1
V <sub>GP</sub>	Plateau Voltage				4.8		V
SWITCHING	CHARACTERISTICS (Note 5)	•		•	•	•	•
t <sub>d(ON)</sub>	Turn–On Delay Time	V <sub>GS</sub> = 10 V, V <sub>E</sub>	<sub>DS</sub> = 32 V,		9.5		ns
t <sub>r</sub>	Rise Time	I <sub>D</sub> = 15 A, R <sub>0</sub>	<sub>G</sub> = 1 Ω		24		
t <sub>d(OFF)</sub>	Turn-Off Delay Time				19		
t <sub>f</sub>	Fall Time				6		1
DRAIN-SO	JRCE DIODE CHARACTERISTICS	•		1			
V <sub>SD</sub>	Forward Diode Voltage	V <sub>GS</sub> = 0 V,	T <sub>J</sub> = 25°C		0.84	1.2	V
		I <sub>S</sub> = 15 A	T <sub>J</sub> = 125°C		0.71		1
t <sub>RR</sub>	Reverse Recovery Time	$V_{GS} = 0 \text{ V, } dI_{S}/dt$	$V_{GS} = 0 \text{ V, } dI_{S}/dt = 100 \text{ A}/\mu\text{s,}$ $I_{S} = 15 \text{ A}$		24		ns
t <sub>a</sub>	Charge Time	I <sub>S</sub> = 15			11		1
t <sub>b</sub>	Discharge Time				12		1
Q <sub>RR</sub>	Reverse Recovery Charge				11		nC

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  $\leq 2\%$ .

5. Switching characteristics are independent of operating junction temperatures.

#### **TYPICAL CHARACTERISTICS**

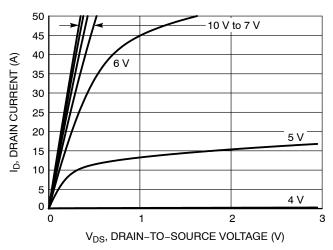


Figure 1. On-Region Characteristics

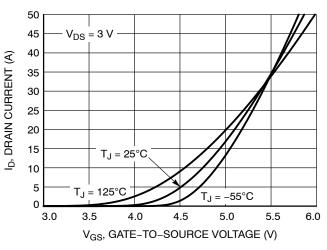


Figure 2. Transfer Characteristics

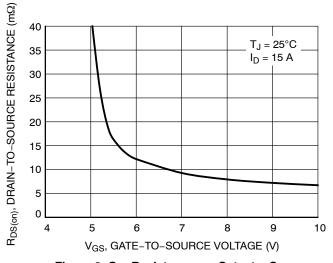


Figure 3. On-Resistance vs. Gate-to-Source Voltage

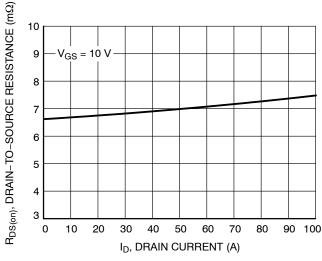


Figure 4. On-Resistance vs. Drain Current and Gate Voltage

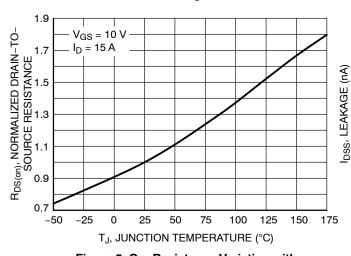


Figure 5. On–Resistance Variation with Temperature

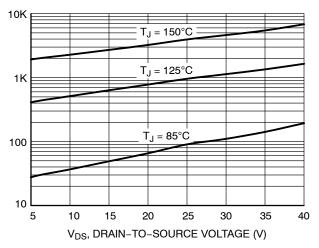
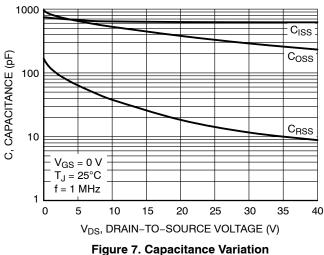


Figure 6. Drain-to-Source Leakage Current vs. Voltage

#### TYPICAL CHARACTERISTICS (continued)



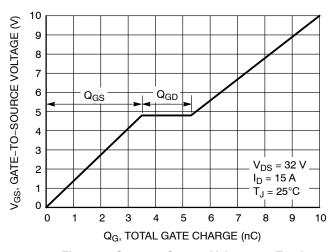


Figure 8. Gate-to-Source Voltage vs. Total Charge

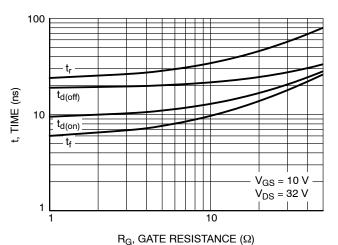


Figure 9. Resistive Switching Time Variation

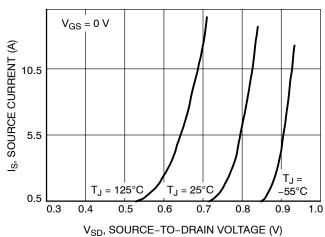


Figure 10. Diode Forward Voltage vs. Current

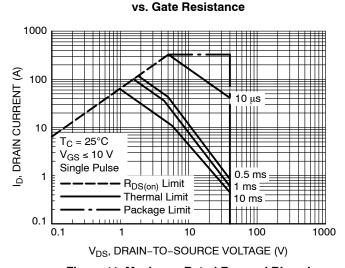


Figure 11. Maximum Rated Forward Biased Safe Operating Area

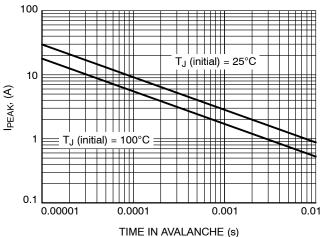


Figure 12. I<sub>PEAK</sub> vs. Time in Avalanche

#### TYPICAL CHARACTERISTICS (continued)

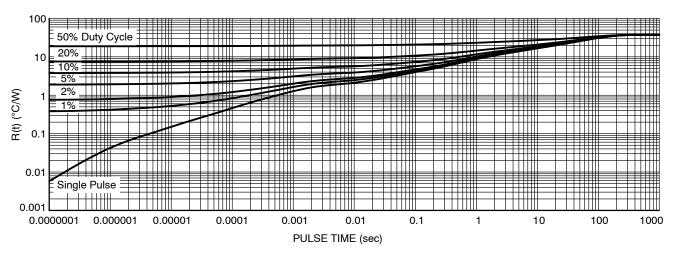


Figure 13. Thermal Characteristics

#### **DEVICE ORDERING INFORMATION**

Device	Marking	Package	Shipping <sup>†</sup>
NVMYS8D0N04CTWG	8D0N04C	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.

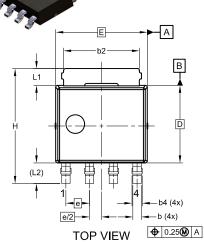


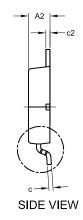
### LFPAK4 4.90x4.15x1.15MM, 1.27P CASE 760AB

ISSUE D

1.30

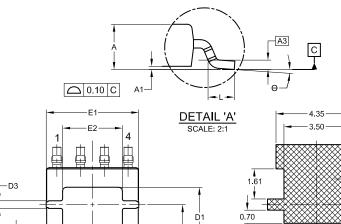
**DATE 22 MAY 2024** 





#### 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		0.40 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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