

|                                                                                       |              |
|---------------------------------------------------------------------------------------|--------------|
| THIRD ANGLE PROJECTION                                                                |              |
|  | -            |
| SCALE                                                                                 | 5:1          |
| DO NOT SCALE PRINT                                                                    |              |
| UNLESS OTHERWISE SPECIFIED<br>TOLERANCES ARE                                          |              |
| ONE PLACE                                                                             | (.0) +.030   |
| TWO PLACE                                                                             | (.00) +.015  |
| THREE PLACE                                                                           | (.000) +.005 |
| ANGLES                                                                                | +2°          |
| WEIGHT                                                                                |              |

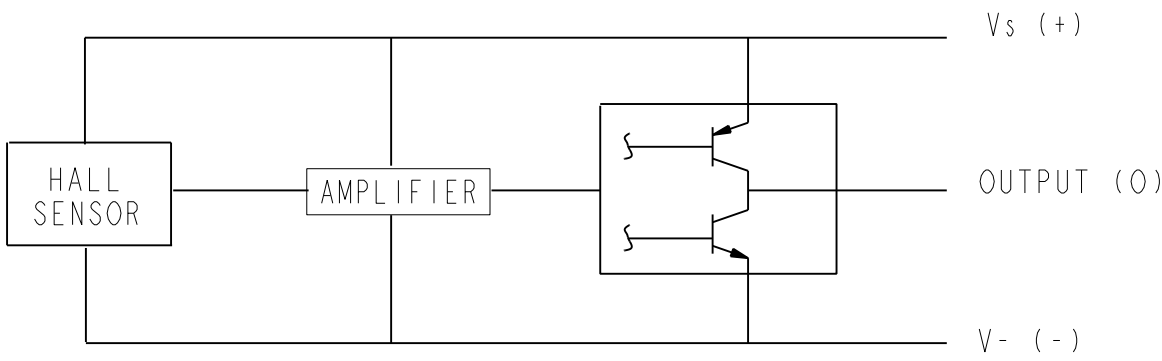
CHARACTERISTICS ARE AT Vs=5.00 WITH 4.7K OUTPUT TO MINUS WITH TA= -40°C TO +125°C UNLESS OTHERWISE SPECIFIED

SS495A

SS495 SERIES CHART 1

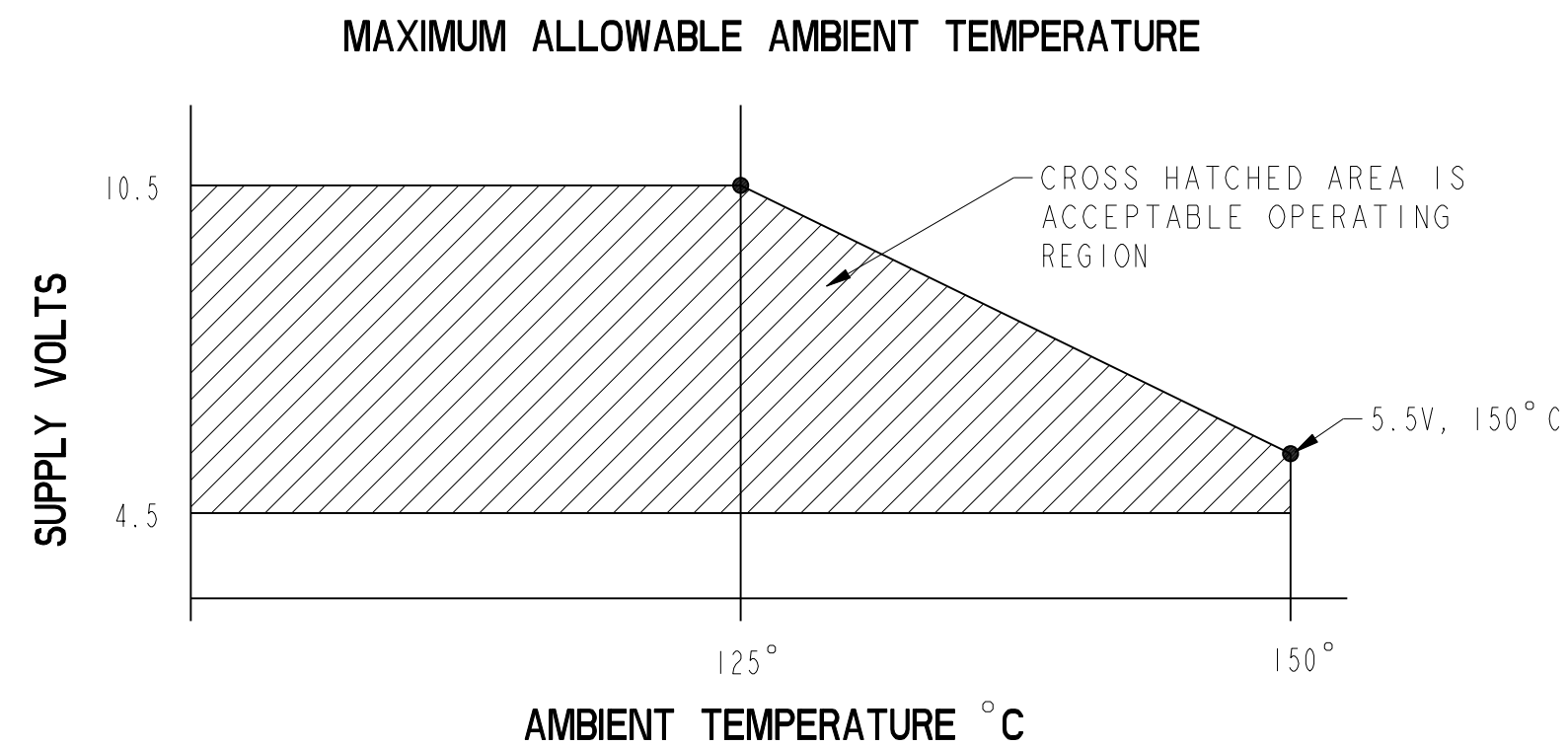
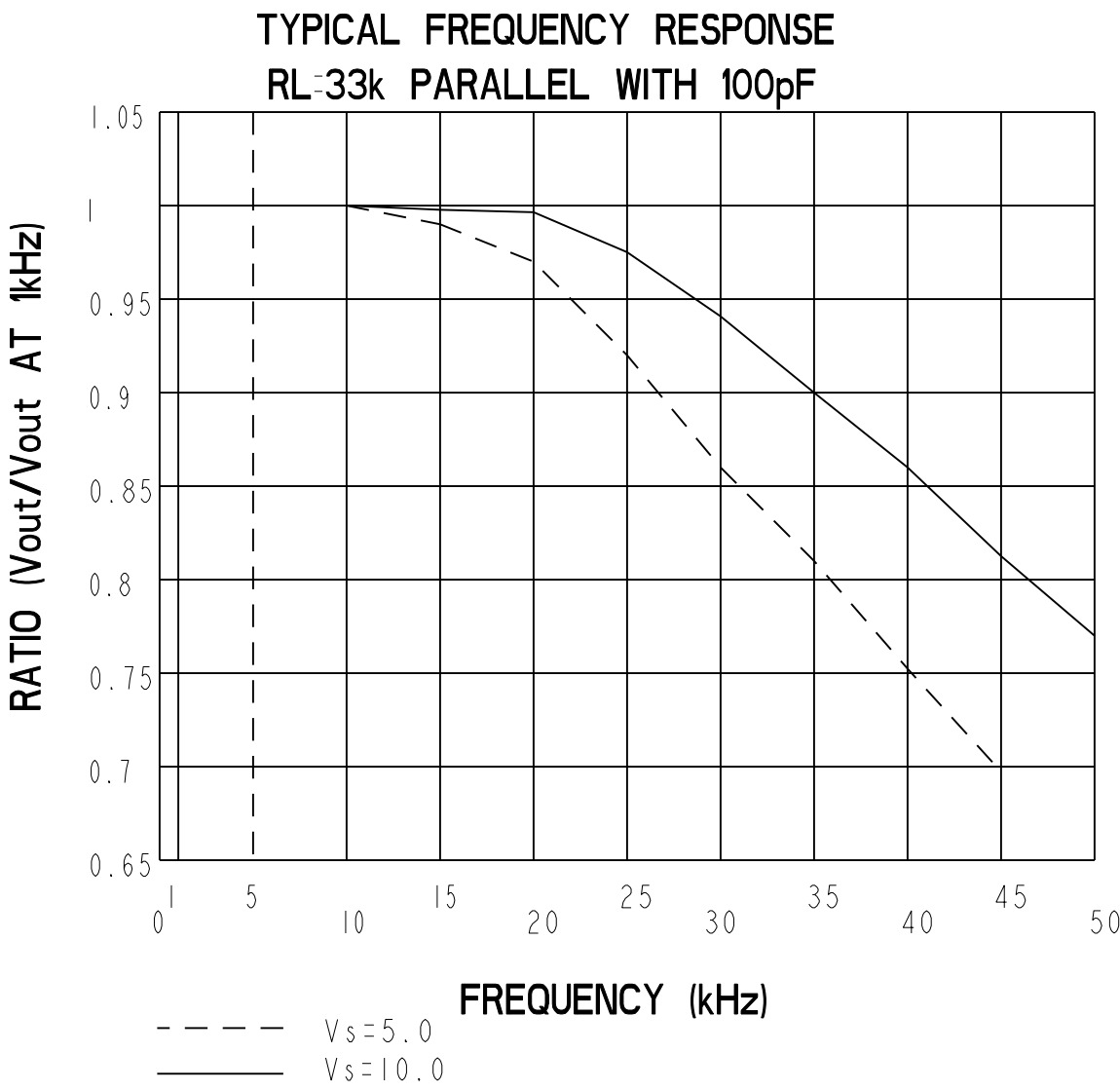
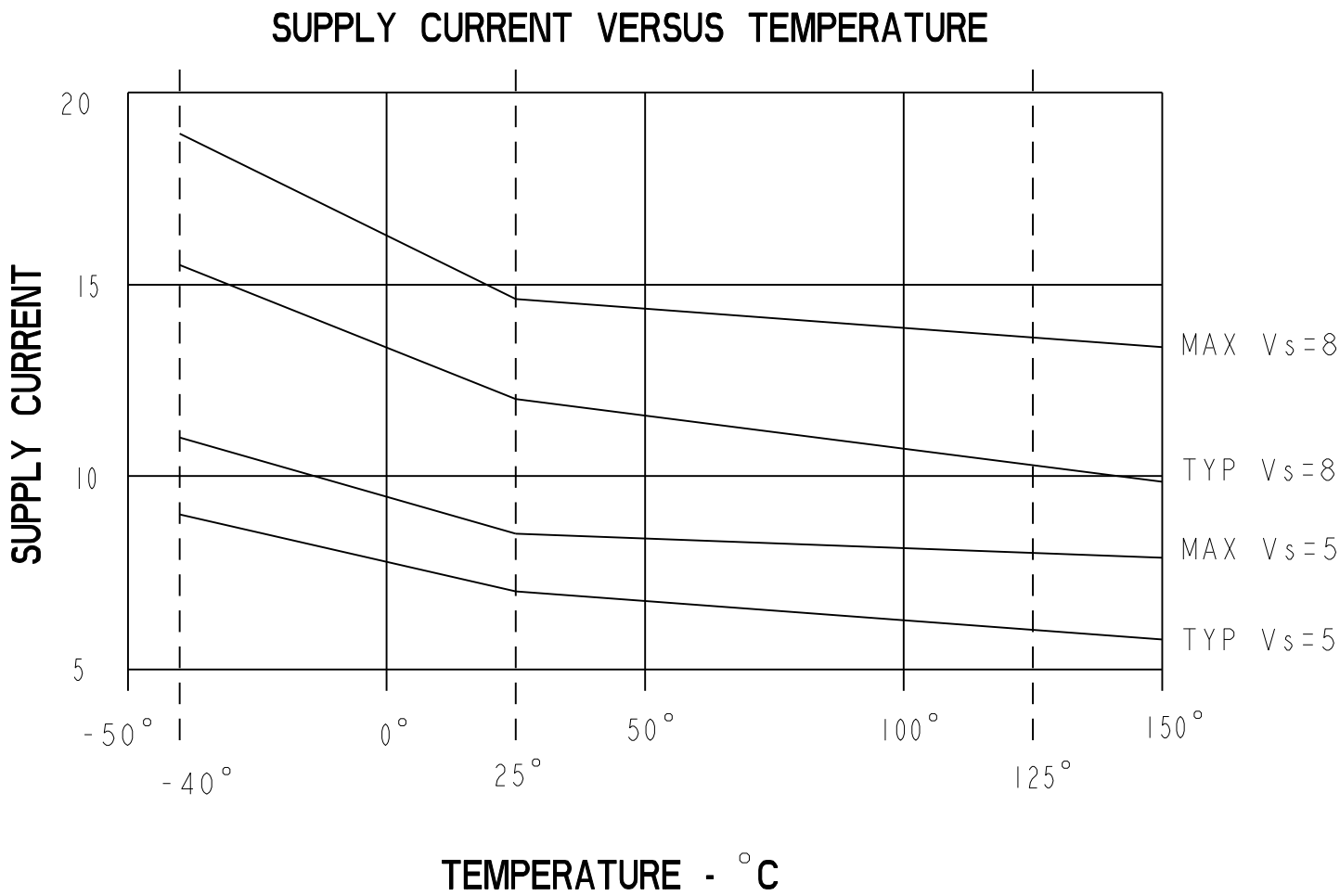
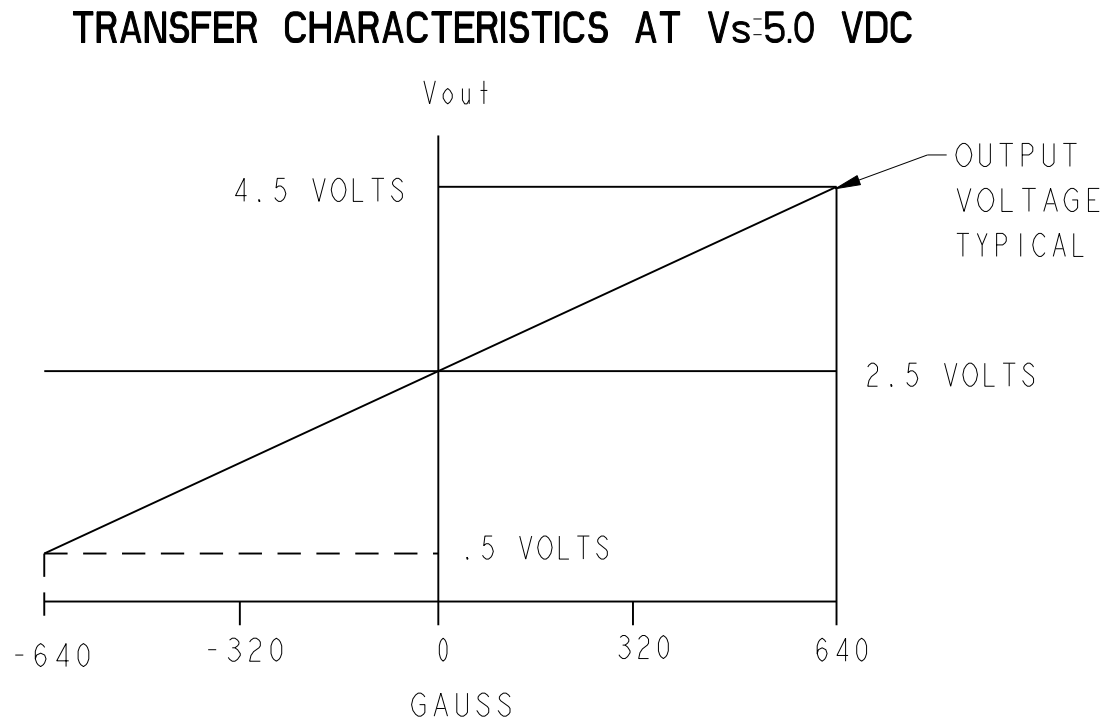
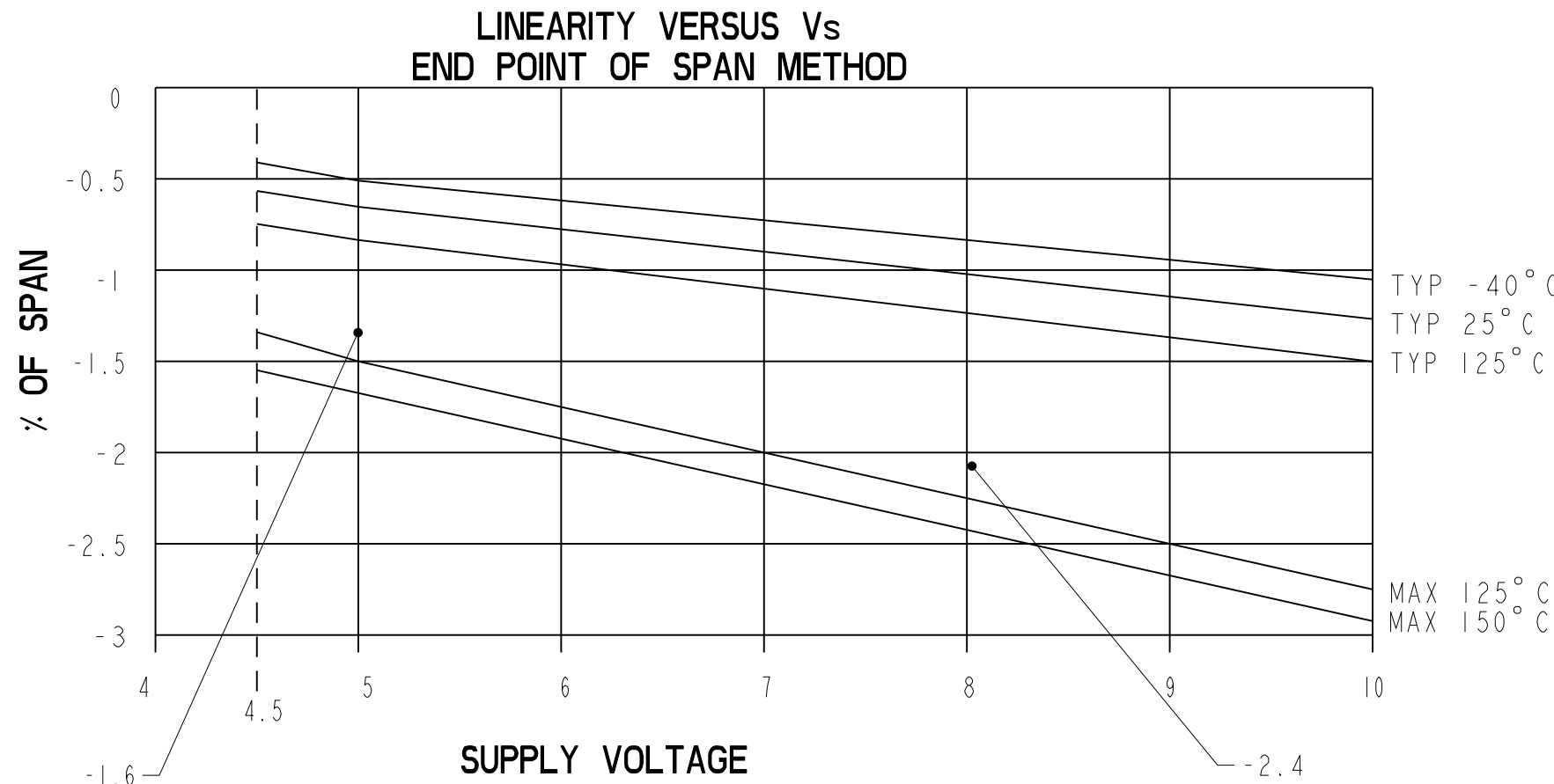
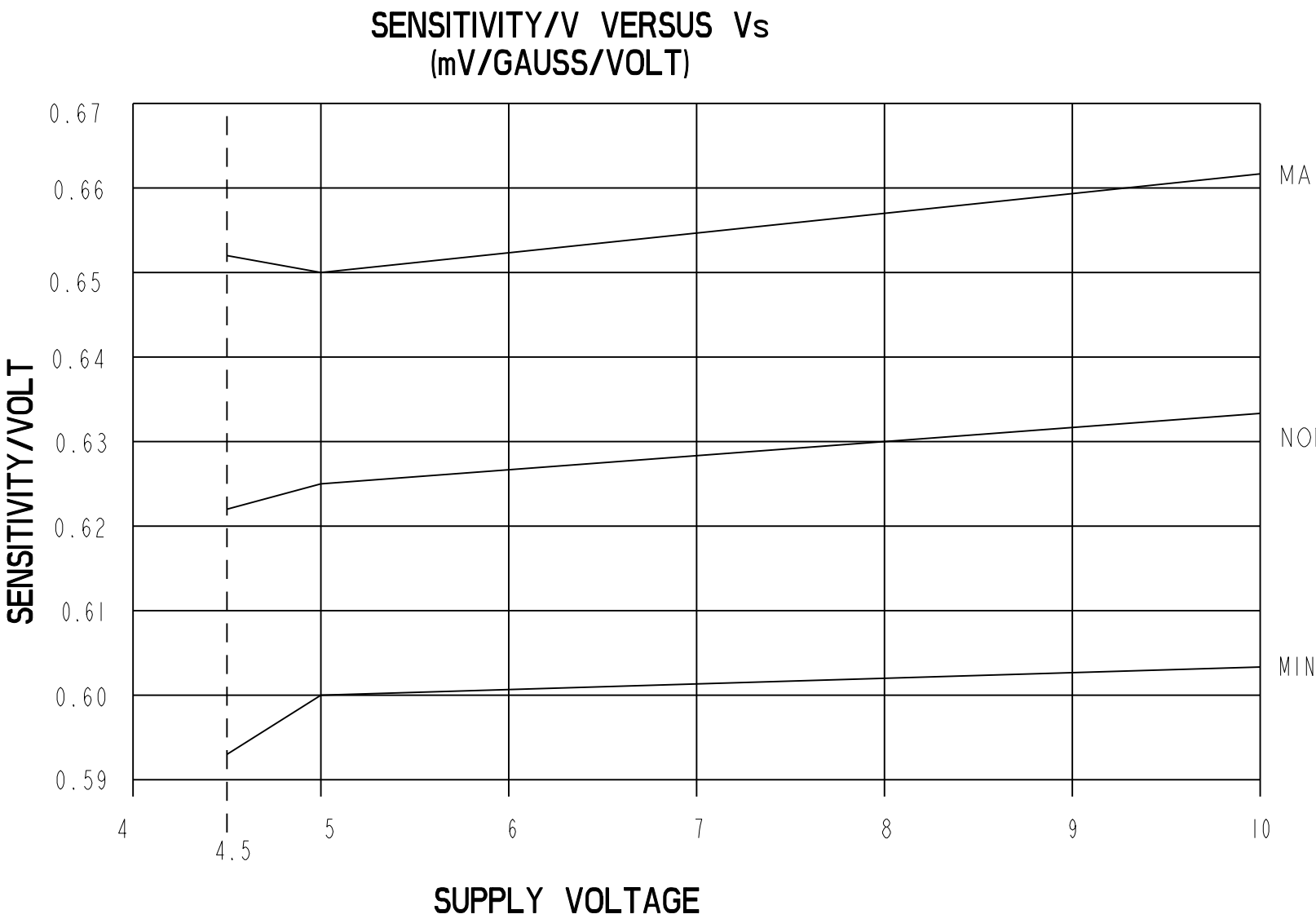
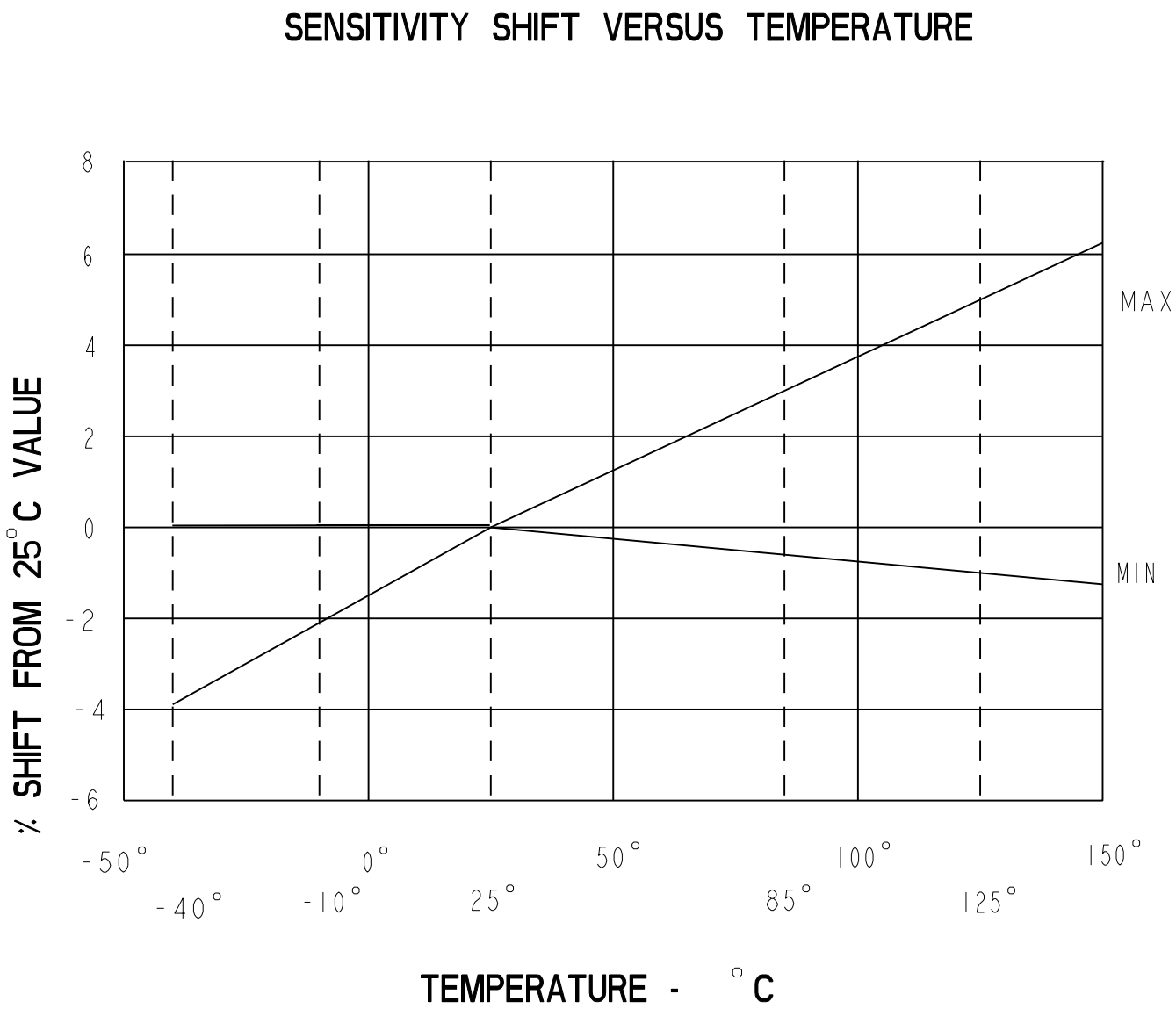
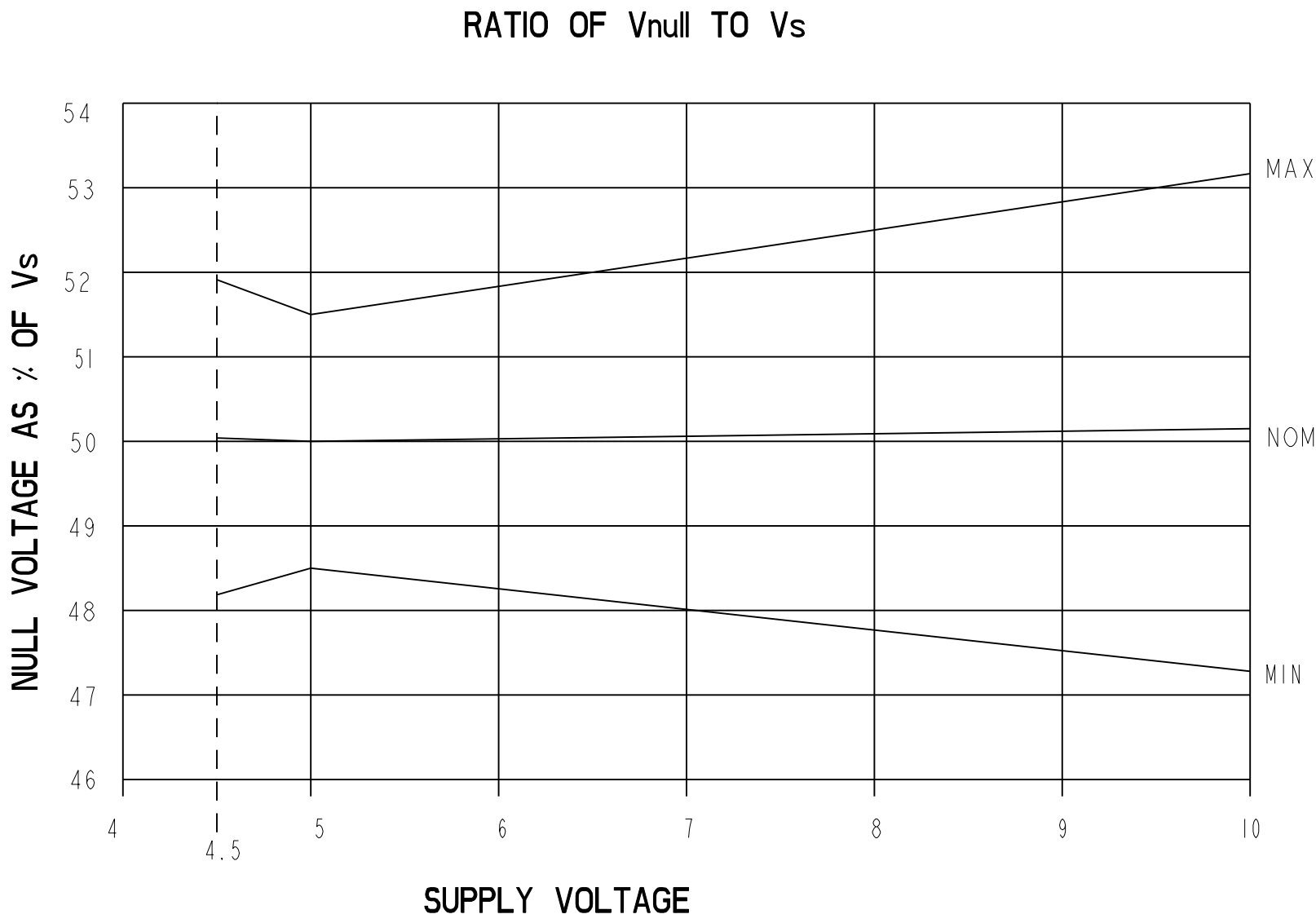
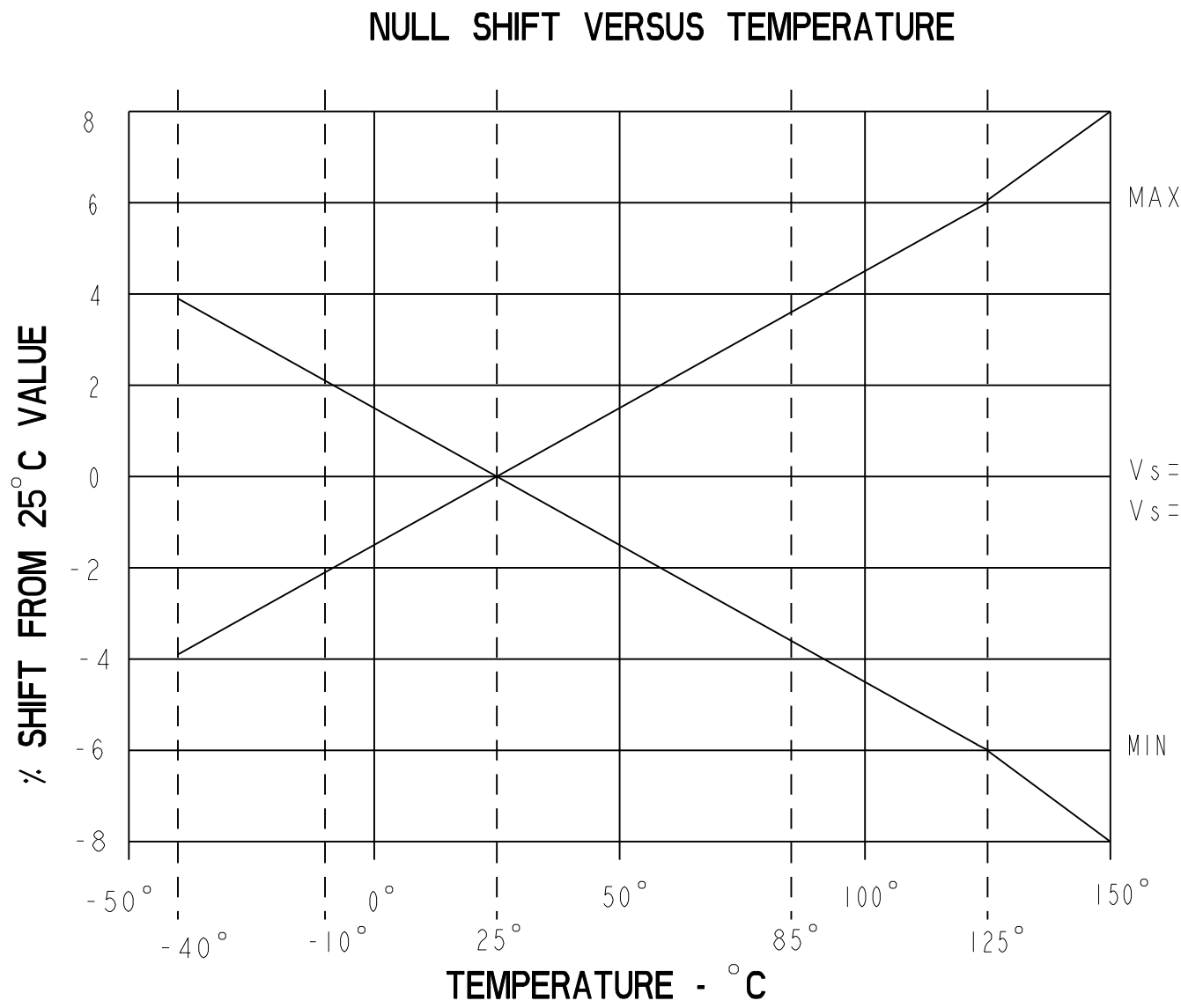
| PARAMETER                     | CONDITIONS                     | MIN      | TYP     | MAX   | UNITS     |
|-------------------------------|--------------------------------|----------|---------|-------|-----------|
| SENSITIVITY                   | TA = 25° C                     | 3.00     | 3.125   | 3.25  | mV/GAUSS  |
| NULL                          | TA = 25° C                     | 2.425    | 2.50    | 2.575 | VOLTS     |
| SUPPLY CURRENT                | TA = 25° C                     |          | 7       | 8.7   | mA        |
| OUTPUT CURRENT                | SOURCE                         | Vs > 4.5 | 1mA     | 1.5mA |           |
|                               | SINK                           | Vs > 4.5 | .6mA    | 1.5mA |           |
|                               | SINK                           | Vs > 5.0 | 1mA     | 1.5mA |           |
| RESPONSE TIME                 |                                |          | 3μS     |       |           |
| OUTPUT VOLTAGE SWING          | VOM -                          |          |         |       |           |
|                               | VOM +                          |          |         |       |           |
| B LIMITS FOR LINEAR OPERATION | -B APPLIED                     | .4       | .2      |       | VOLTS     |
|                               | +B APPLIED                     | Vs - .4  | Vs - .2 |       | VOLTS     |
| Vnull LIMITS                  | -B MAX                         | -600     | -670    |       | GAUSS     |
|                               | +B MAX                         | +600     | +670    |       | GAUSS     |
| Vnull DRIFT                   | B = 0, TA = 25° C TO 125° C    | -.06     |         | +.06  | % / ° C   |
| Vnull DRIFT                   | B = 0, TA = -125° C TO +150° C | -.08     |         | +.08  | % / ° C   |
| SENSITIVITY DRIFT             | TA=+25° C TO +150° C           | -.01     |         | +.05  | % / ° C   |
| SENSITIVITY DRIFT             | TA=-40° C TO +25° C            | 0        |         | +.06  | % / ° C   |
| LINEARITY                     | B = -600 TO +600               | 0        | -1.0    | -1.5  | % OF SPAN |
| SUPPLY VOLTAGE                | -40° C TO +125° C              | 4.5      | 5.0     | 10.5  | VOLTS     |
| OPERATING TEMP                | SEE MAX TEMPERATURE CHART      | -40      |         | +150  | ° C       |

BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



ABSOLUTE MAXIMUM CHARACTERISTICS

| CHARACTERISTIC | SYMBOL | TEST CONDITION  | MIN  | MAX | UNITS |
|----------------|--------|-----------------|------|-----|-------|
| SUPPLY VOLTAGE | Vcc    |                 | -0.5 | 11  | V     |
| OUTPUT VOLTAGE | Vout   |                 | -0.5 | 11  | V     |
| OUTPUT CURRENT | Iout   | SOURCE OR SINK  |      | 10  | mA    |
| TEMPERATURE    | TA     | OPERATING       | -55  | 150 | °C    |
|                | TS     | STORAGE (Vcc=0) | -55  | 165 | °C    |



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CATALOG LISTING

**SS495 SERIES CHART 1**

MINIATURE RATIONOMETRIC  
LINEAR HALL EFFECT SENSOR

|                                           |              |
|-------------------------------------------|--------------|
| THIRD ANGLE PROJECTION                    |              |
| SCALE                                     | NONE         |
| DO NOT SCALE PRINT                        |              |
| UNLESS OTHERWISE SPECIFIED TOLERANCES ARE |              |
| ONE PLACE                                 | (.0) +.030   |
| TWO PLACE                                 | (.00) +.015  |
| THREE PLACE                               | (.000) +.005 |
| ANGLES                                    | +2°          |
| WEIGHT                                    |              |

|                                                                                       |              |
|---------------------------------------------------------------------------------------|--------------|
| THIRD ANGLE PROJECTION                                                                |              |
|  |              |
| SCALE                                                                                 | NONE         |
| DO NOT SCALE PRINT                                                                    |              |
| UNLESS OTHERWISE SPECIFIED<br>TOLERANCES ARE                                          |              |
| ONE PLACE                                                                             | (.0) +.030   |
| TWO PLACE                                                                             | (.00) +.015  |
| THREE PLACE                                                                           | (.000) +.005 |
| ANGLES                                                                                | +2°          |
| WEIGHT                                                                                |              |

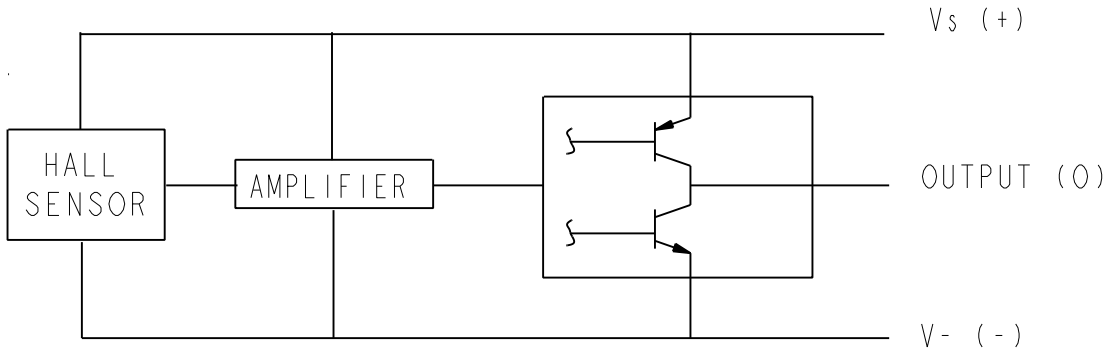
CHARACTERISTICS ARE AT Vs=5.00 WITH 4.7K OUTPUT TO MINUS WITH TA: -40°C TO +125°C UNLESS OTHERWISE SPECIFIED

SS495A2

SS495 SERIES CHART 1

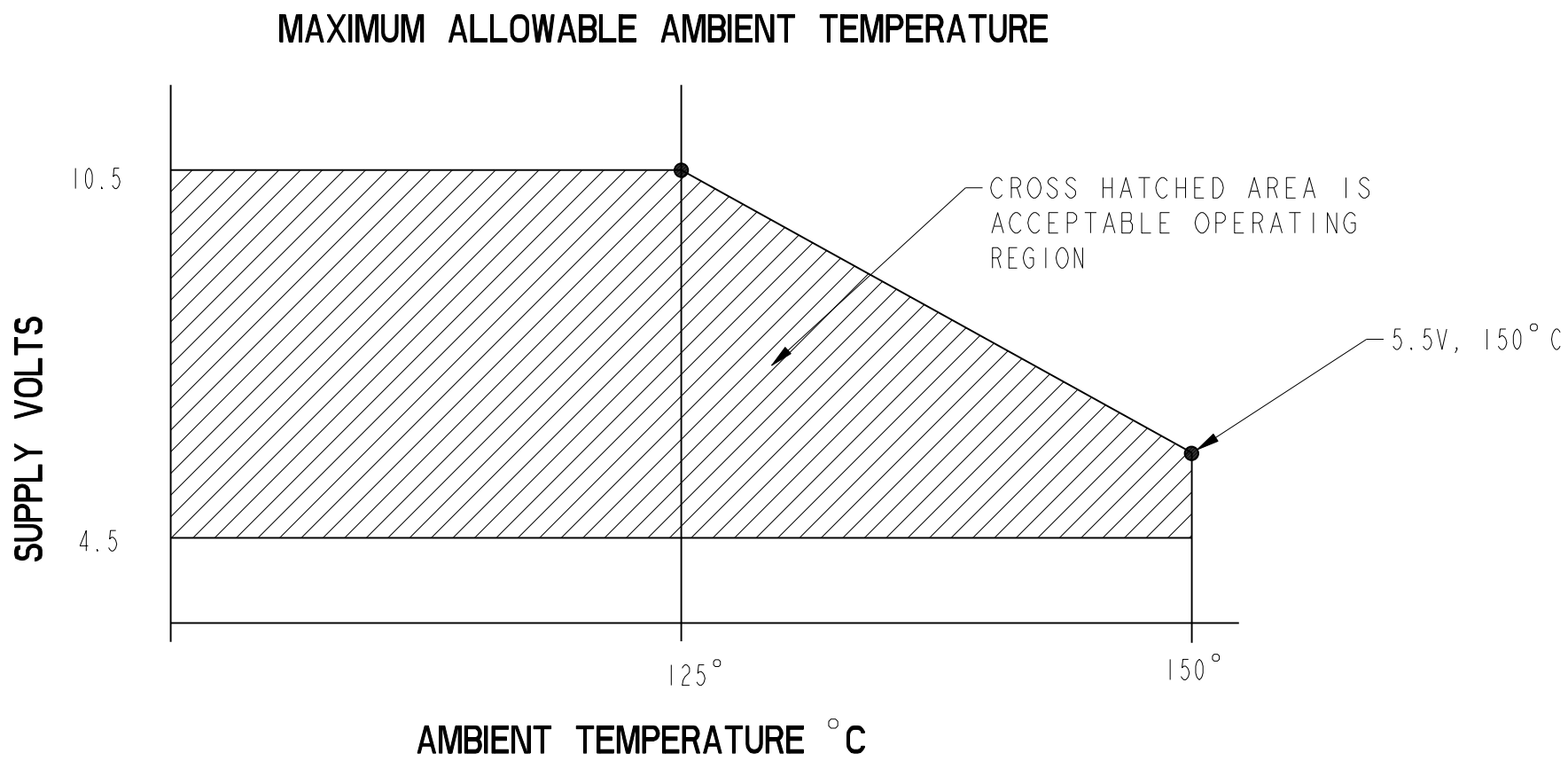
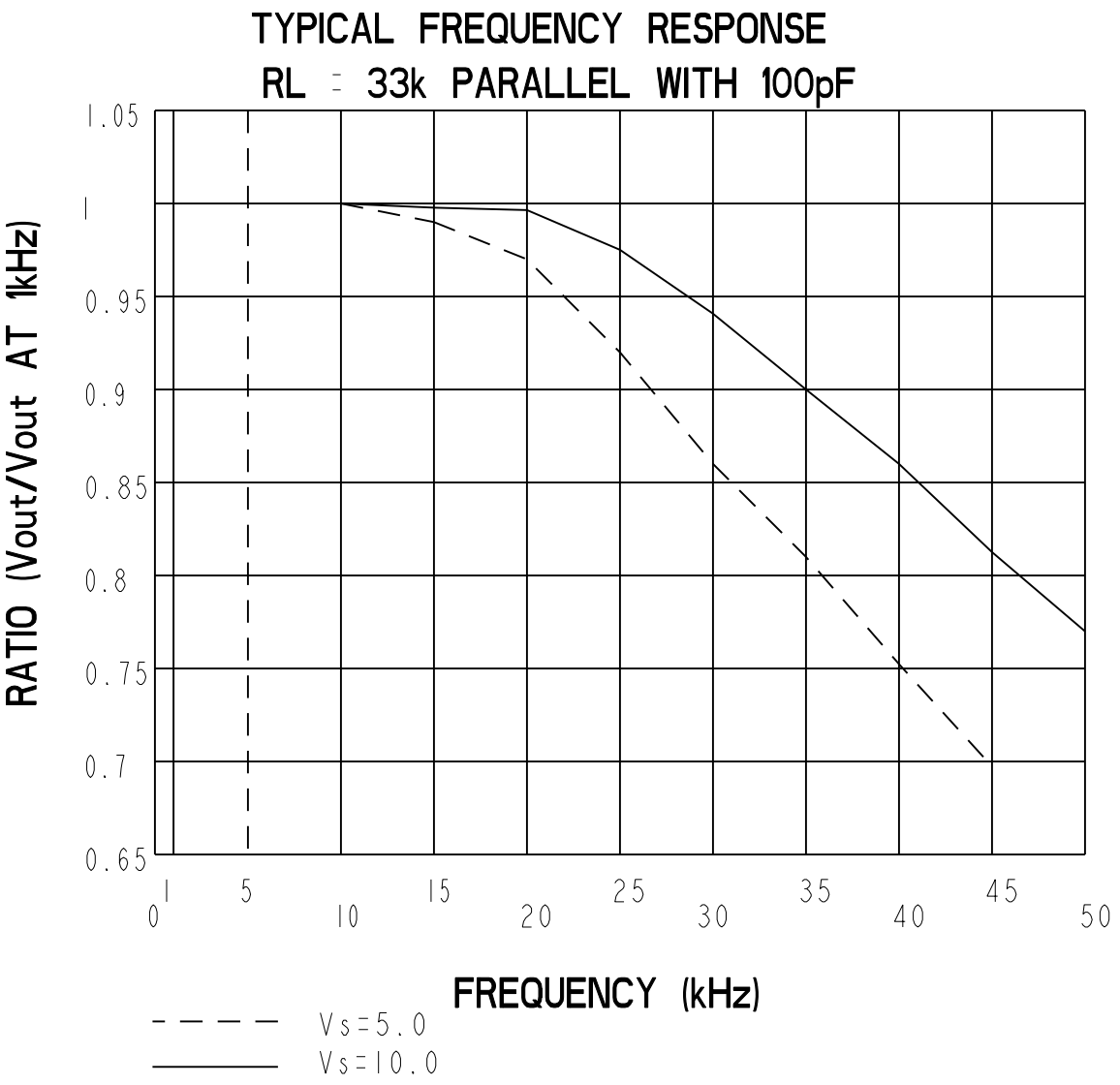
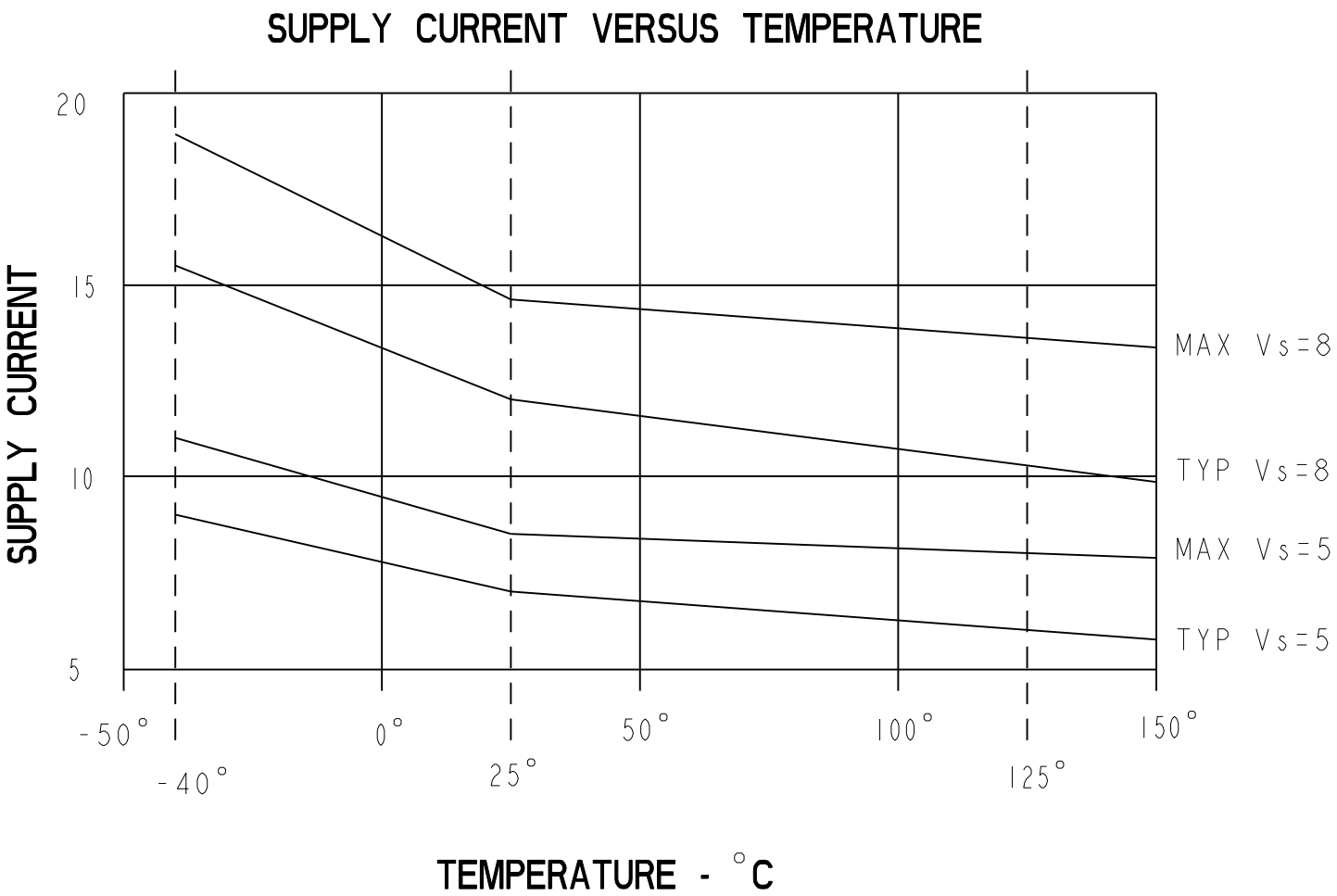
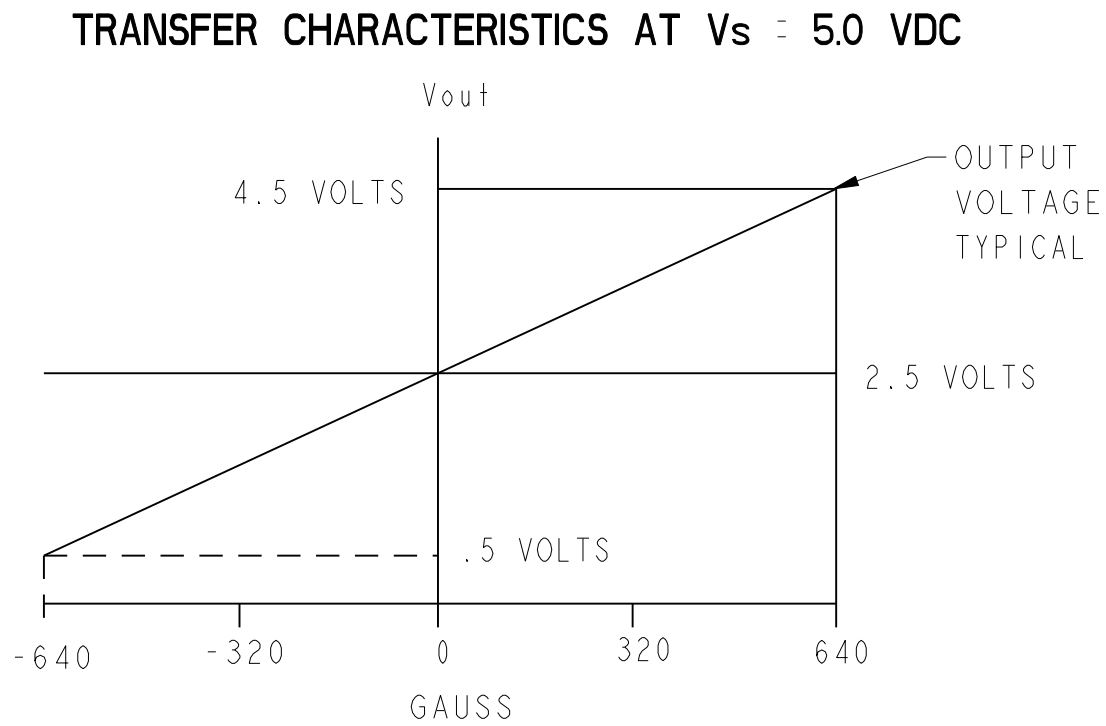
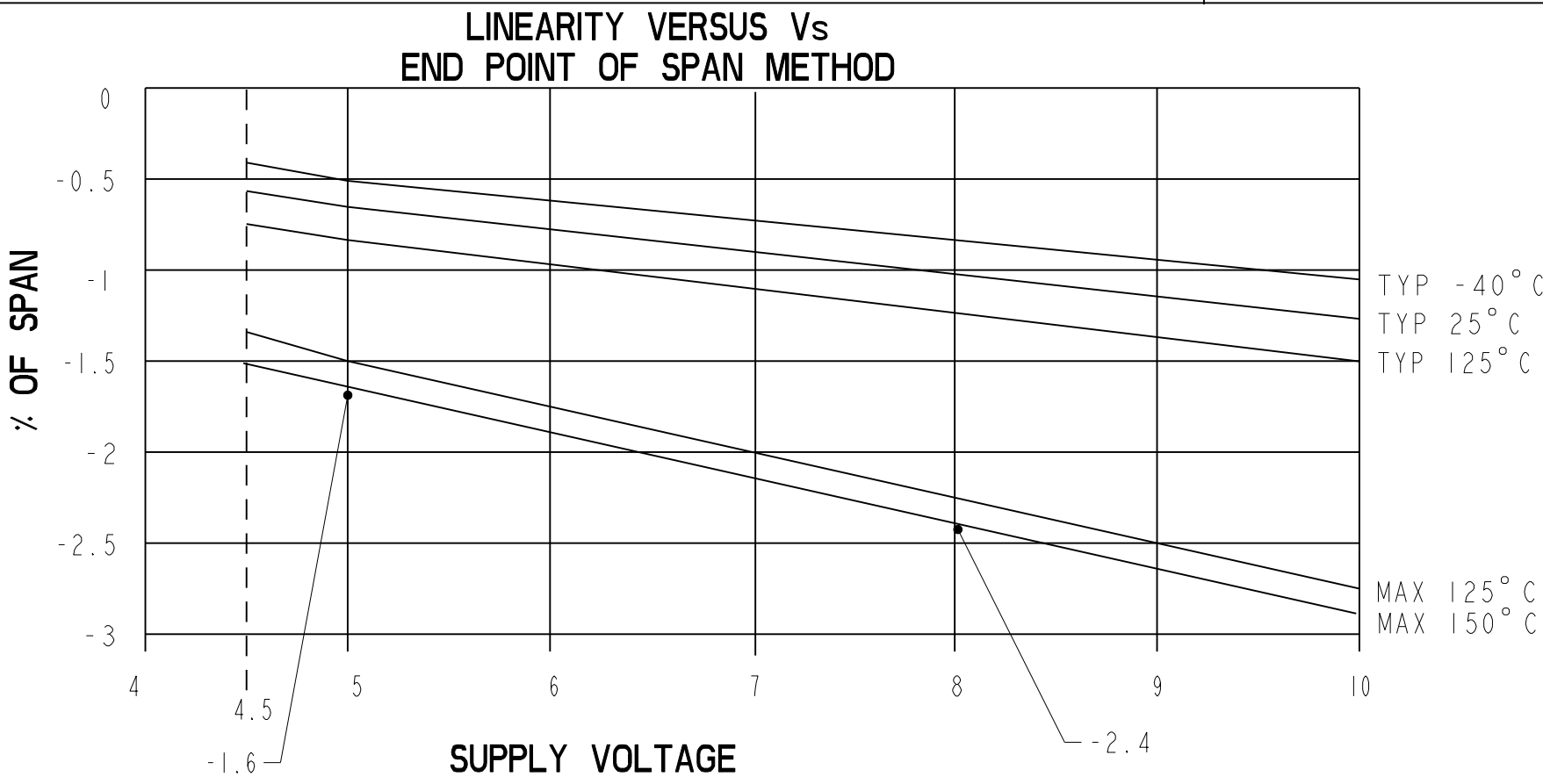
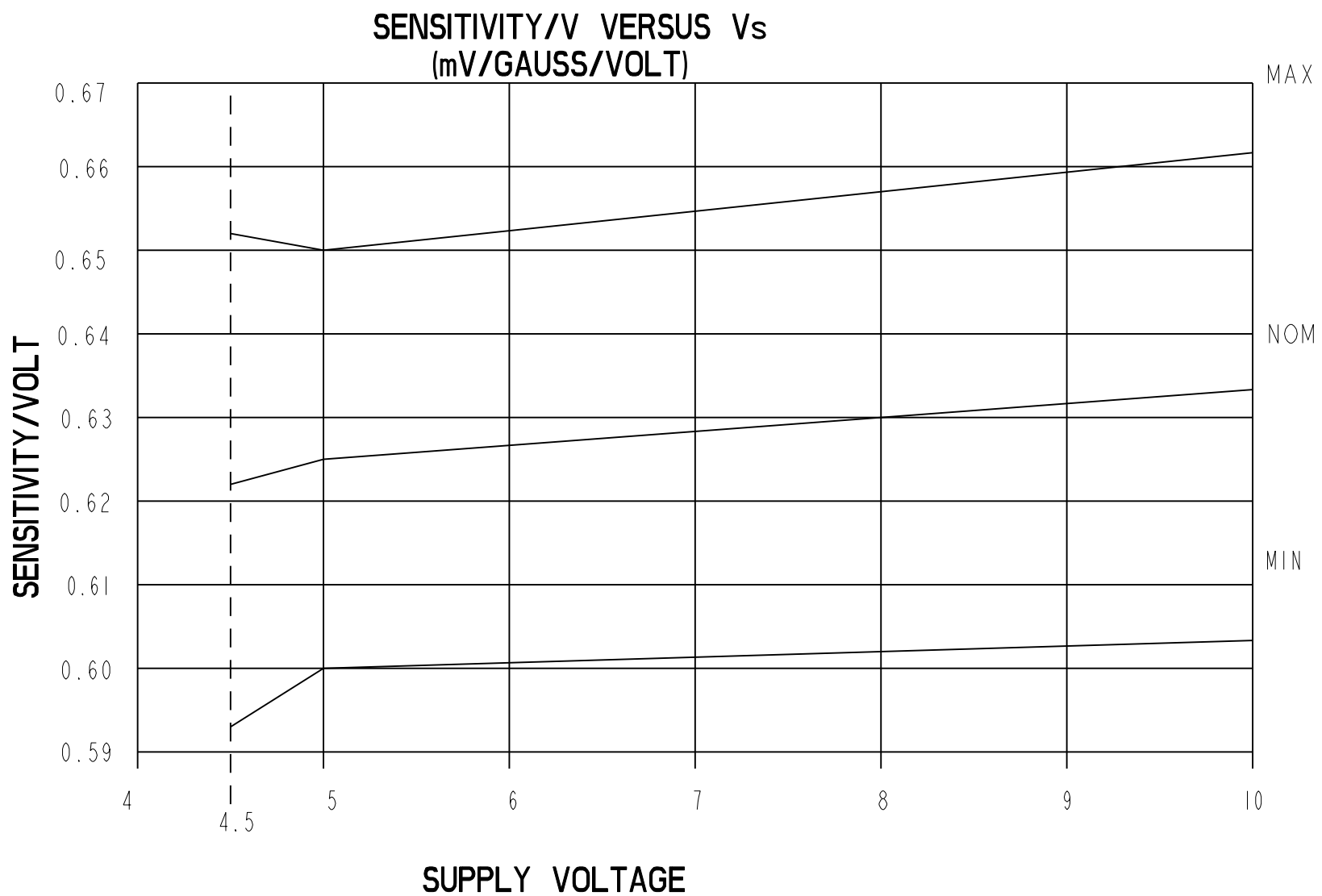
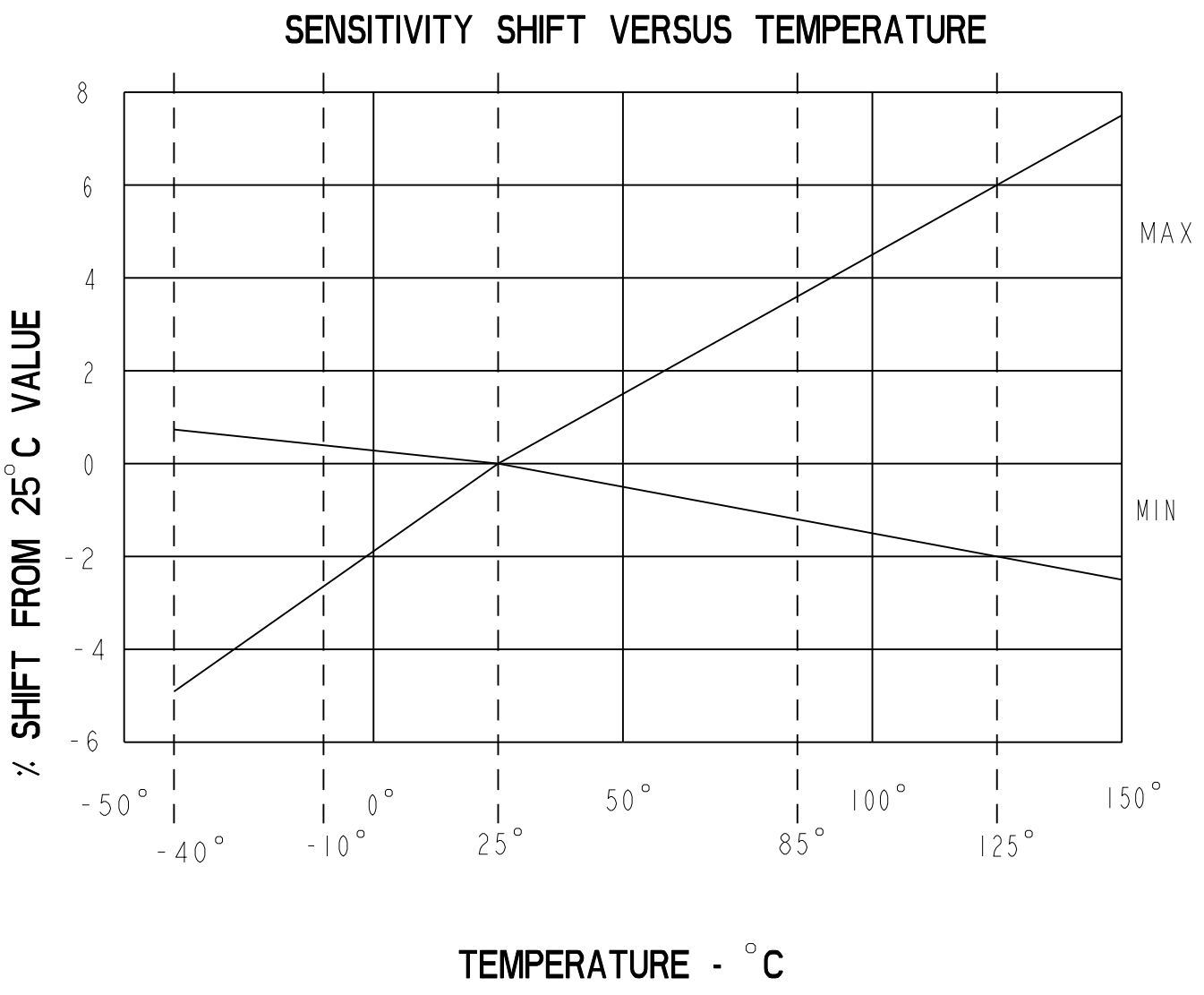
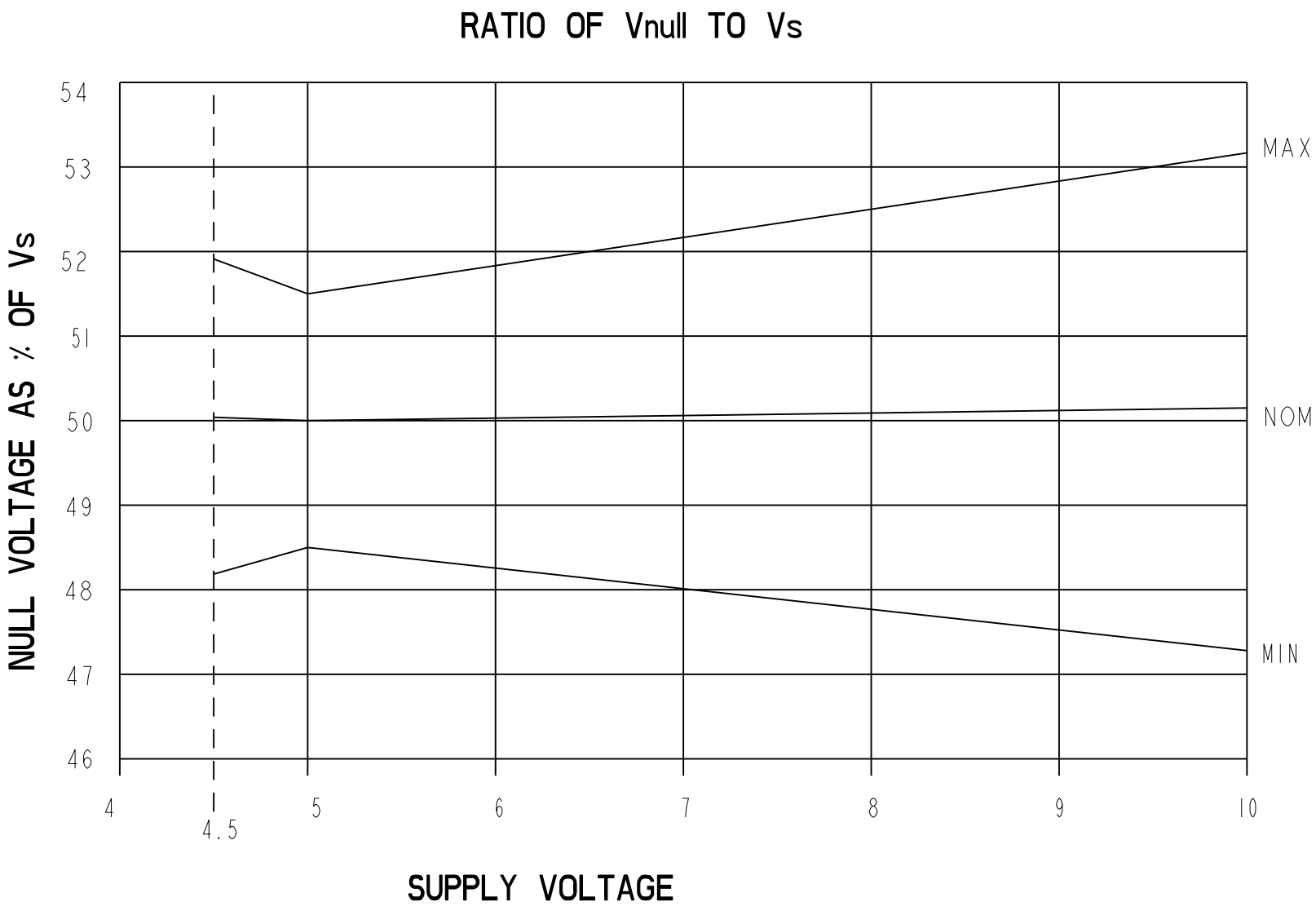
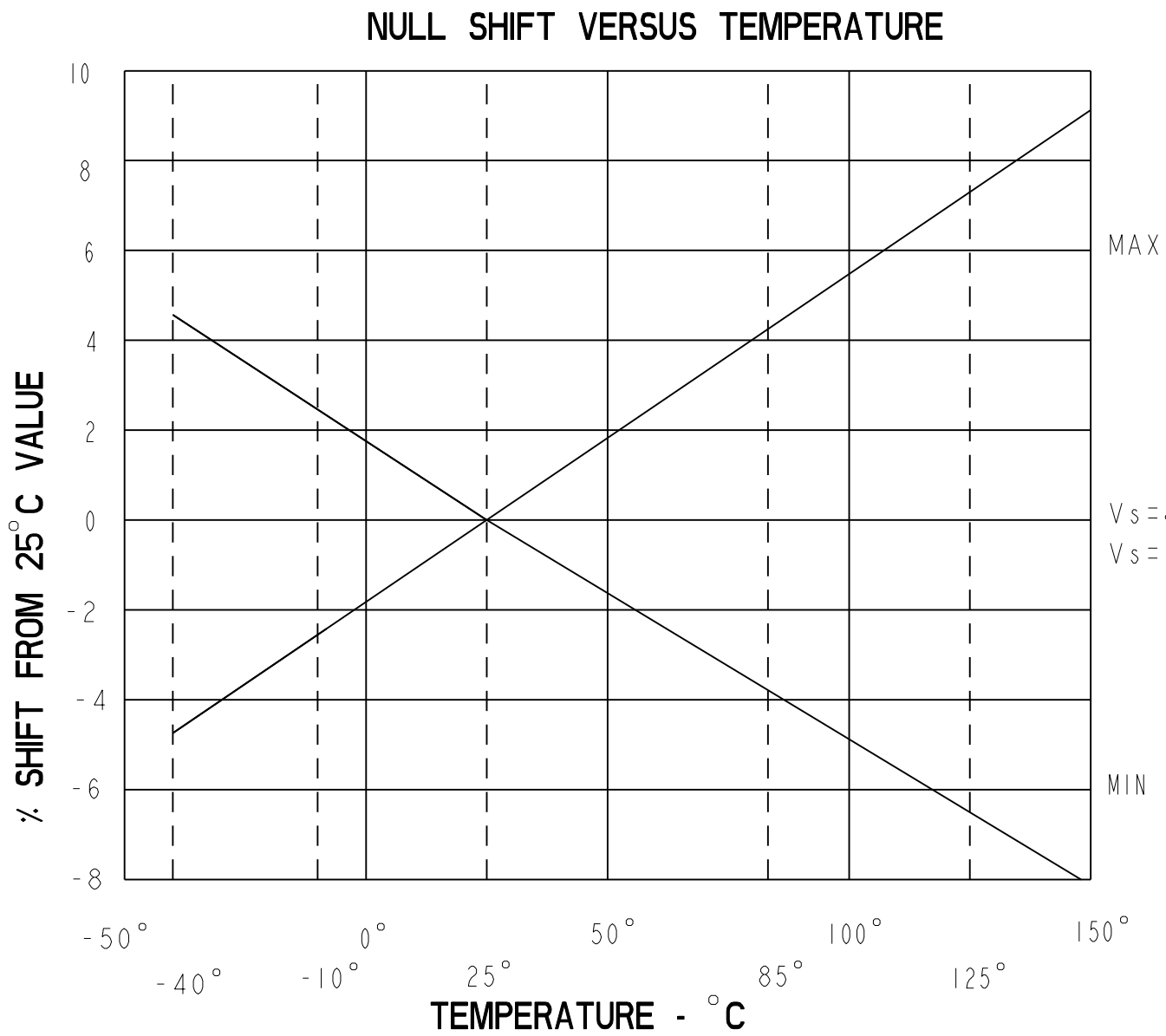
| PARAMETER                              | CONDITIONS                     | MIN    | TYP    | MAX   | UNITS     |
|----------------------------------------|--------------------------------|--------|--------|-------|-----------|
| SENSITIVITY                            | TA = 25° C                     | 2.969  | 3.125  | 3.281 | mV/GAUSS  |
| NULL                                   | TA = 25° C                     | 2.400  | 2.50   | 2.600 | VOLTS     |
| SUPPLY CURRENT                         | TA = 25° C                     |        | 7      | 8.7   | mA        |
| OUTPUT CURRENT<br>SINK<br>SINK         | Vs > 4.5                       | 1mA    | 1.5mA  |       |           |
|                                        | Vs > 4.5                       | .6mA   | 1.5mA  |       |           |
|                                        | Vs > 5.0                       | 1mA    | 1.5mA  |       |           |
| RESPONSE TIME                          |                                |        | 3μS    |       |           |
| OUTPUT VOLTAGE SWING<br>VOM -<br>VOM + | -B APPLIED                     | .4     | .2     |       | VOLTS     |
|                                        | +B APPLIED                     | Vs -.4 | Vs -.2 |       | VOLTS     |
| B LIMITS FOR LINEAR<br>OPERATION       | -B MAX                         | -600   | -670   |       | GAUSS     |
|                                        | +B MAX                         | +600   | +670   |       | GAUSS     |
| Vnull DRIFT                            | B = 0, TA = 25° C TO 125° C    | -.07   |        | +.07  | % /° C    |
| Vnull DRIFT                            | B = 0, TA = +125° C TO +150° C | -.08   |        | +.08  | % /° C    |
| SENSITIVITY DRIFT                      | TA=+25° C TO +150° C           | -.02   |        | +.06  | % /° C    |
| SENSITIVITY DRIFT                      | TA=-40° C TO +25° C            | -.01   |        | +.07  | % /° C    |
| LINEARITY                              | B = -600 TO +600               | 0      | -1.0   | -1.5  | % OF SPAN |
| SUPPLY VOLTAGE                         | -40° C TO +125° C              | 4.5    | 5.0    | 10.5  | VOLTS     |
| OPERATING TEMP                         | SEE MAX TEMPERATURE CHART      | -40    |        | +150  | ° C       |

BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT



ABSOLUTE MAXIMUM CHARACTERISTICS

| CHARACTERISTIC | SYMBOL | TEST CONDITION  | MIN  | MAX | UNITS |
|----------------|--------|-----------------|------|-----|-------|
| SUPPLY VOLTAGE | Vcc    |                 | -0.5 | 11  | V     |
| OUTPUT VOLTAGE | Vout   |                 | -0.5 | 11  | V     |
| OUTPUT CURRENT | Iout   | SOURCE OR SINK  | 10   |     | mA    |
| TEMPERATURE    | TA     | OPERATING       | -55  | 150 | °C    |
|                | TS     | STORAGE (Vcc=0) | -55  | 165 | °C    |



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**MICRO SWITCH**  
a Honeywell Division

CATALOG LISTING

**SS495 SERIES CHART 1**

MINIATURE RATIONETRIC  
LINEAR HALL EFFECT SENSOR

|                                           |              |
|-------------------------------------------|--------------|
| THIRD ANGLE PROJECTION                    |              |
| SCALE                                     | NONE         |
| DO NOT SCALE PRINT                        |              |
| UNLESS OTHERWISE SPECIFIED TOLERANCES ARE |              |
| ONE PLACE                                 | (.0) +.030   |
| TWO PLACE                                 | (.00) +.015  |
| THREE PLACE                               | (.000) +.005 |
| ANGLES                                    | +2°          |
| WEIGHT                                    |              |

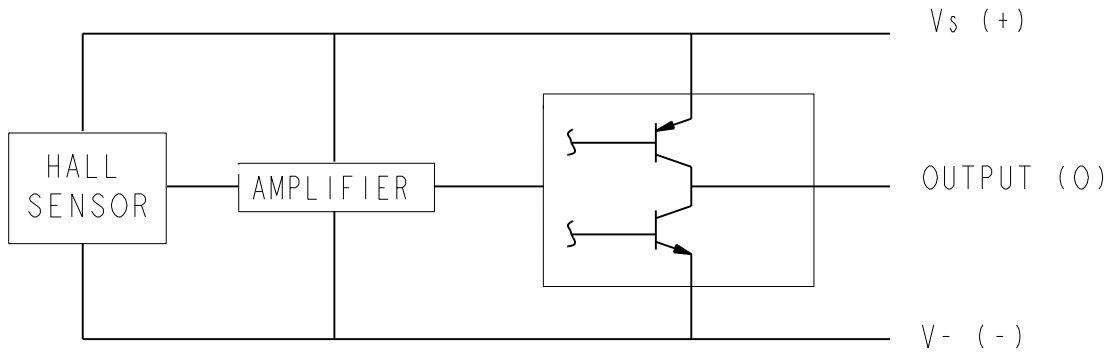
CHARACTERISTICS ARE AT Vs=5.00 WITH 4.7K OUTPUT TO MINUS WITH TA= -40°C TO +125°C UNLESS OTHERWISE SPECIFIED

SS495B

SS495 SERIES CHART 1

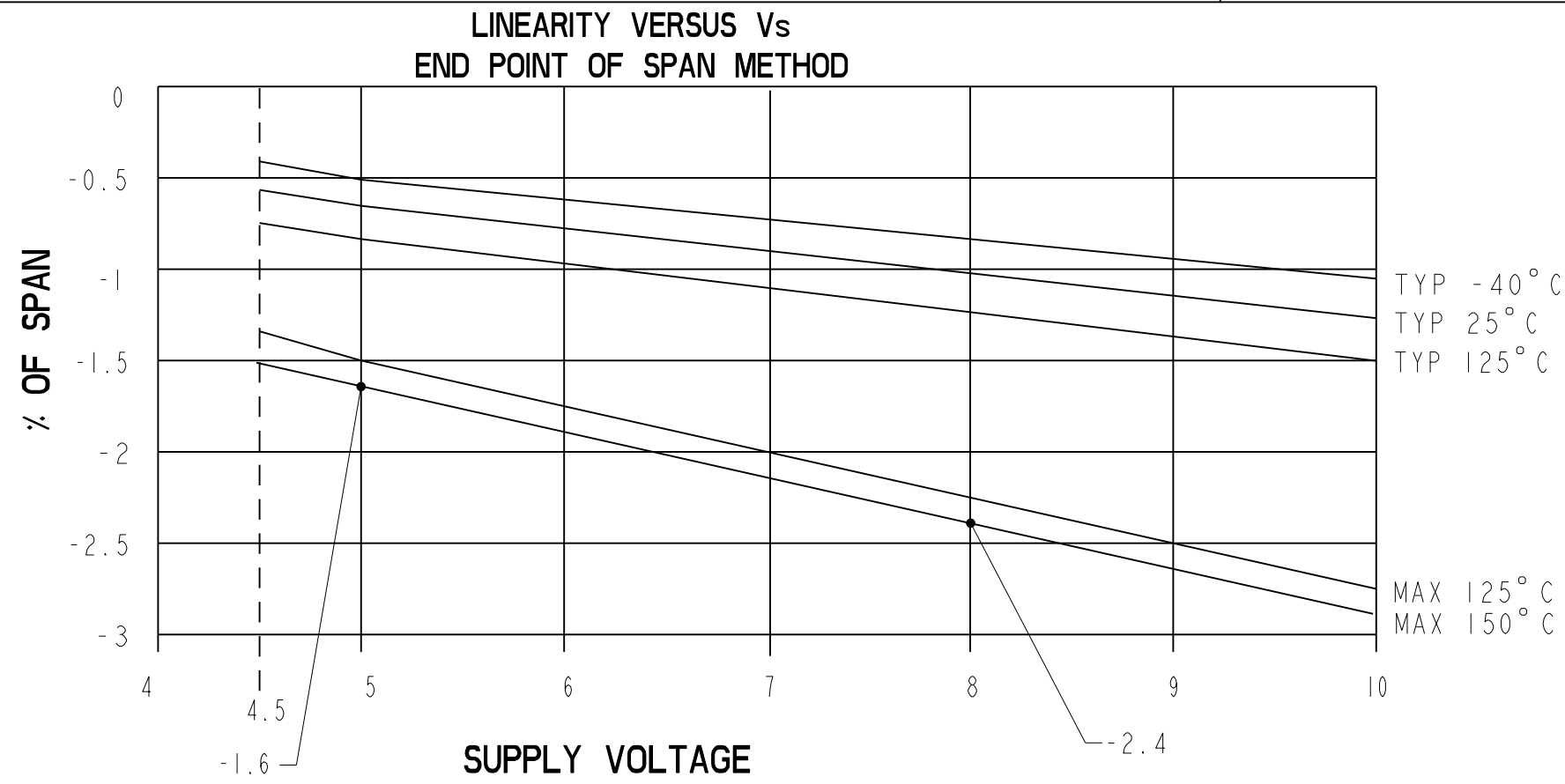
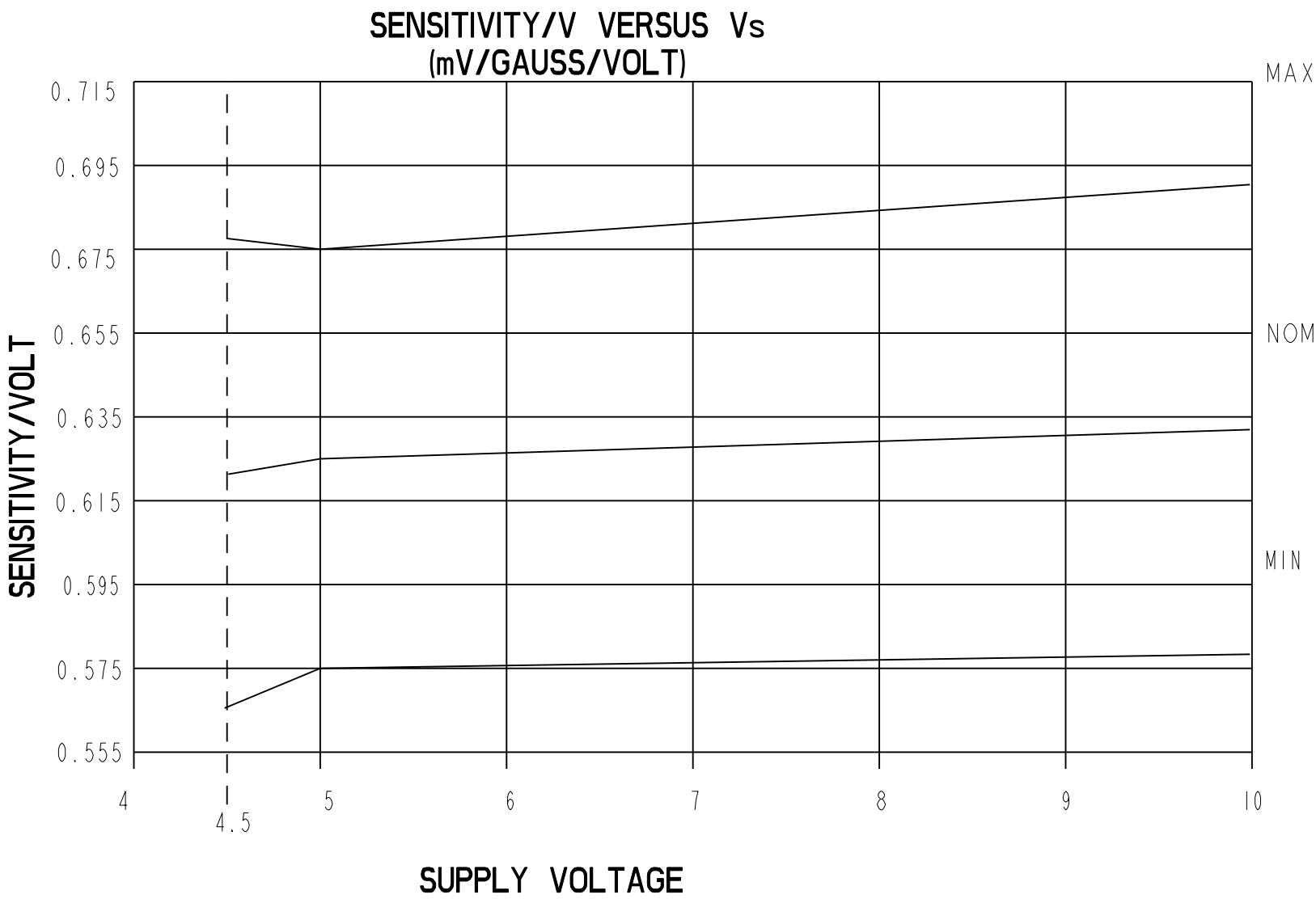
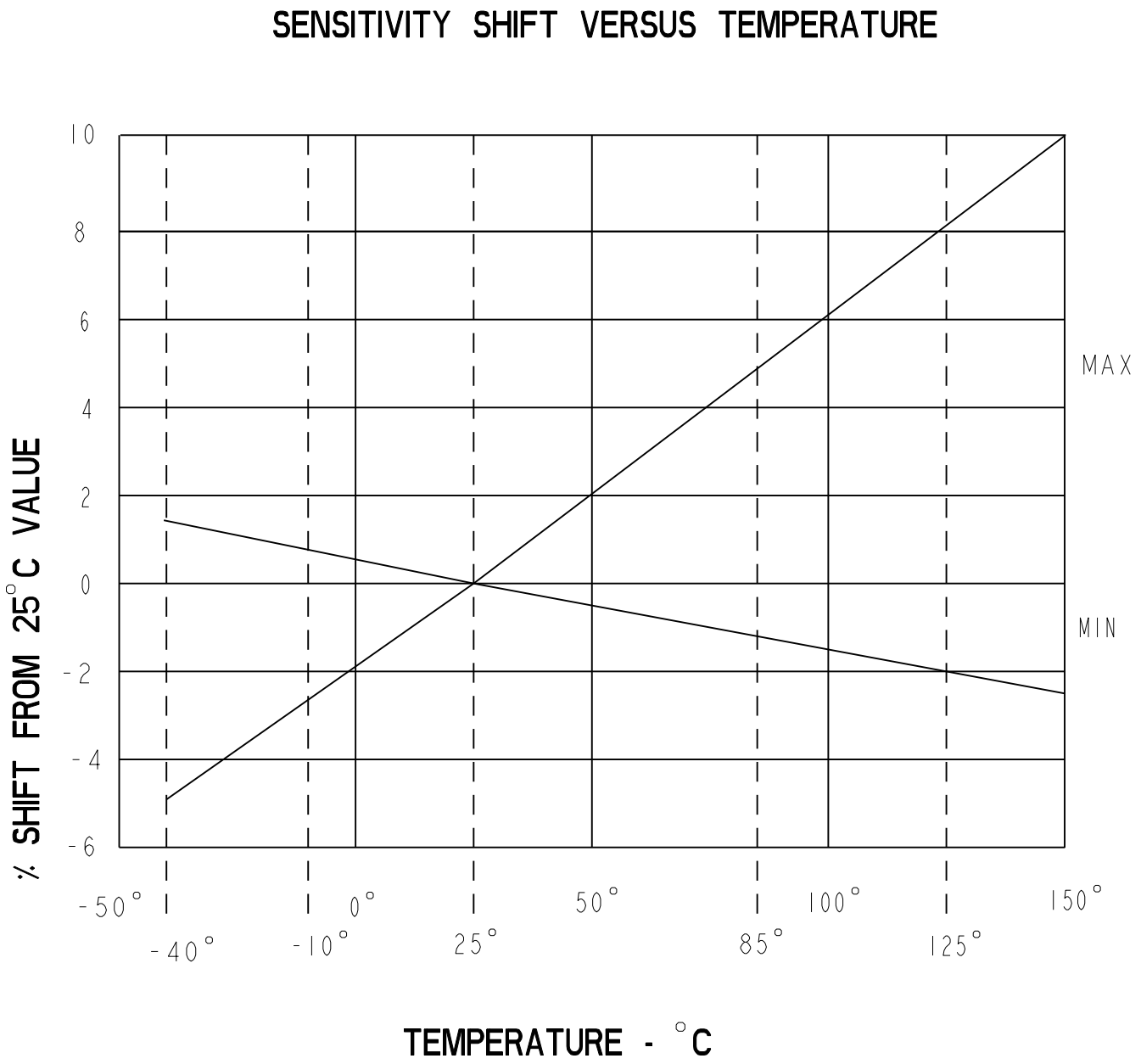
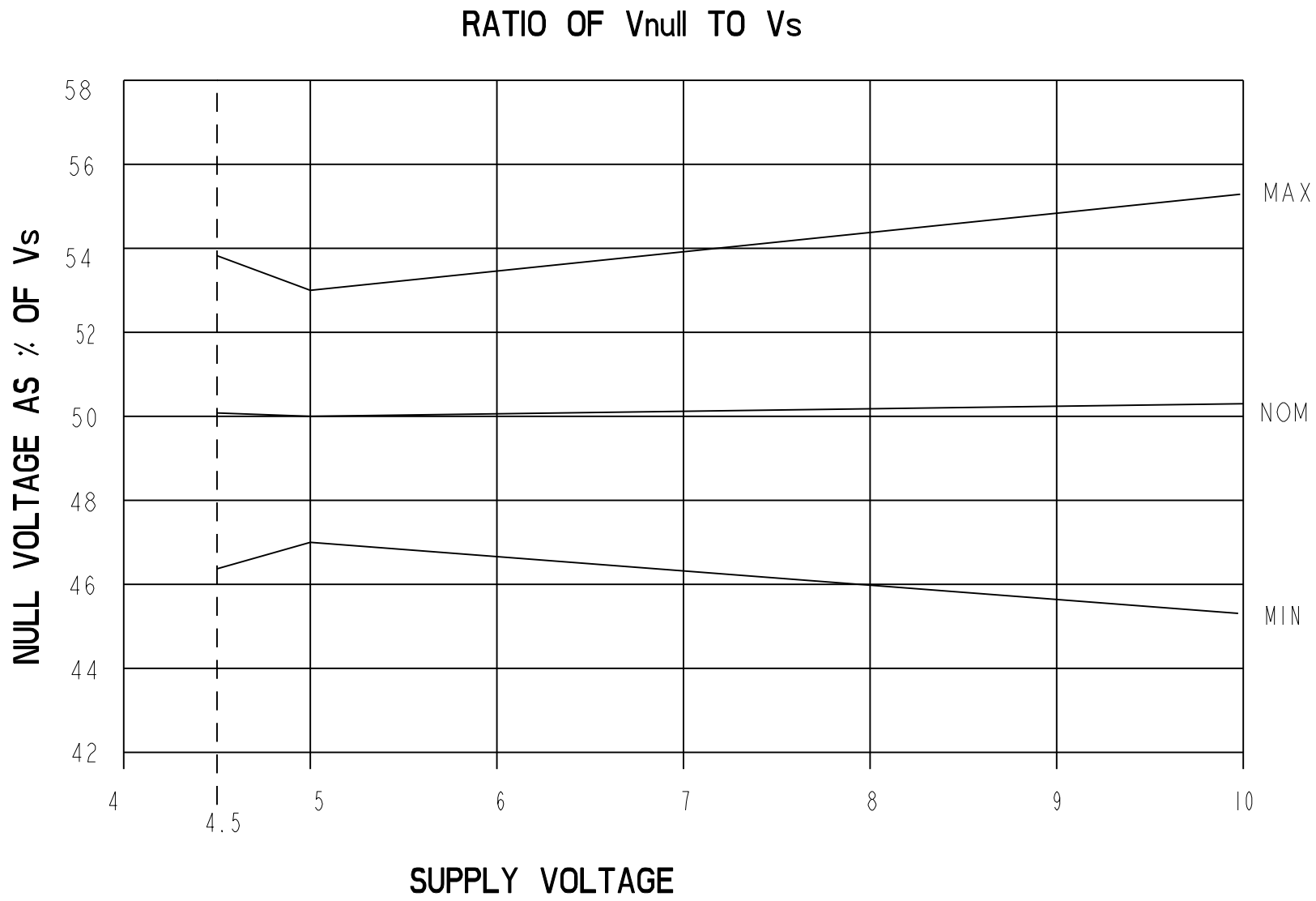
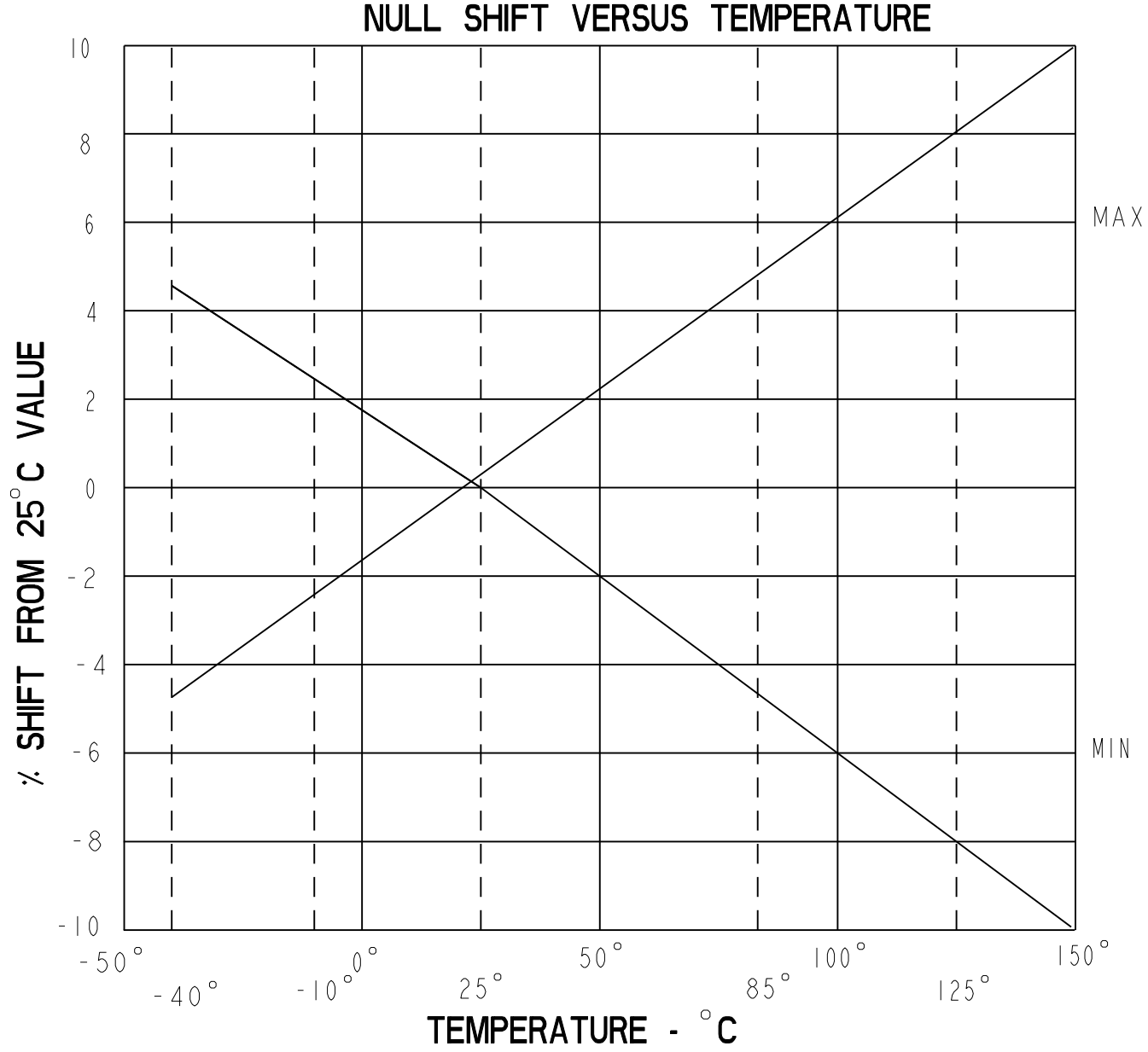
| PARAMETER                     | CONDITIONS                   | MIN     | TYP     | MAX   | UNITS     |
|-------------------------------|------------------------------|---------|---------|-------|-----------|
| SENSITIVITY                   | TA = 25°C                    | 2.875   | 3.125   | 3.375 | mV/GAUSS  |
| NULL                          | TA = 25°C                    | 2.35    | 2.50    | 2.650 | VOLTS     |
| SUPPLY CURRENT                | TA = 25°C                    |         | 7       | 8.7   | mA        |
| OUTPUT CURRENT SOURCE         | Vs > 4.5                     | 1mA     | 1.5mA   |       |           |
| SINK                          | Vs > 4.5                     | .6mA    | 1.5mA   |       |           |
| SINK                          | Vs > 5.0                     | 1mA     | 1.5mA   |       |           |
| RESPONSE TIME                 |                              |         | 3μs     |       |           |
| OUTPUT VOLTAGE SWING          |                              |         |         |       |           |
| VOM -                         | -B APPLIED                   | .4      | .2      |       | VOLTS     |
| VOM +                         | +B APPLIED                   | Vs - .4 | Vs - .2 |       | VOLTS     |
| B LIMITS FOR LINEAR OPERATION | -B MAX                       | -600    | -670    |       | GAUSS     |
|                               | +B MAX                       | +600    | +670    |       | GAUSS     |
| Vnull DRIFT                   | B = 0, TA = 25°C TO 125°C    | -.08    |         | +.08  | % / °C    |
| Vnull DRIFT                   | B = 0, TA = +125°C TO +150°C | -.08    |         | +.08  | % / °C    |
| SENSITIVITY DRIFT             | TA=+25°C TO +150°C           | -.02    |         | +.08  | % / °C    |
| SENSITIVITY DRIFT             | TA=-40°C TO +25°C            | -.02    |         | +.08  | % / °C    |
| LINEARITY                     | B = -600 TO +600             | 0       | -1.0    | -1.5  | % OF SPAN |
| SUPPLY VOLTAGE                | -40°C TO +125°C              | 4.5     | 5.0     | 10.5  | VOLTS     |
| OPERATING TEMP                | SEE MAX TEMPERATURE CHART    | -40     |         | +150  | °C        |

BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT

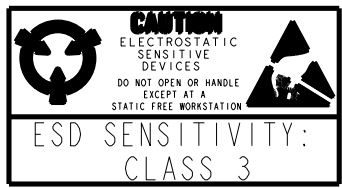
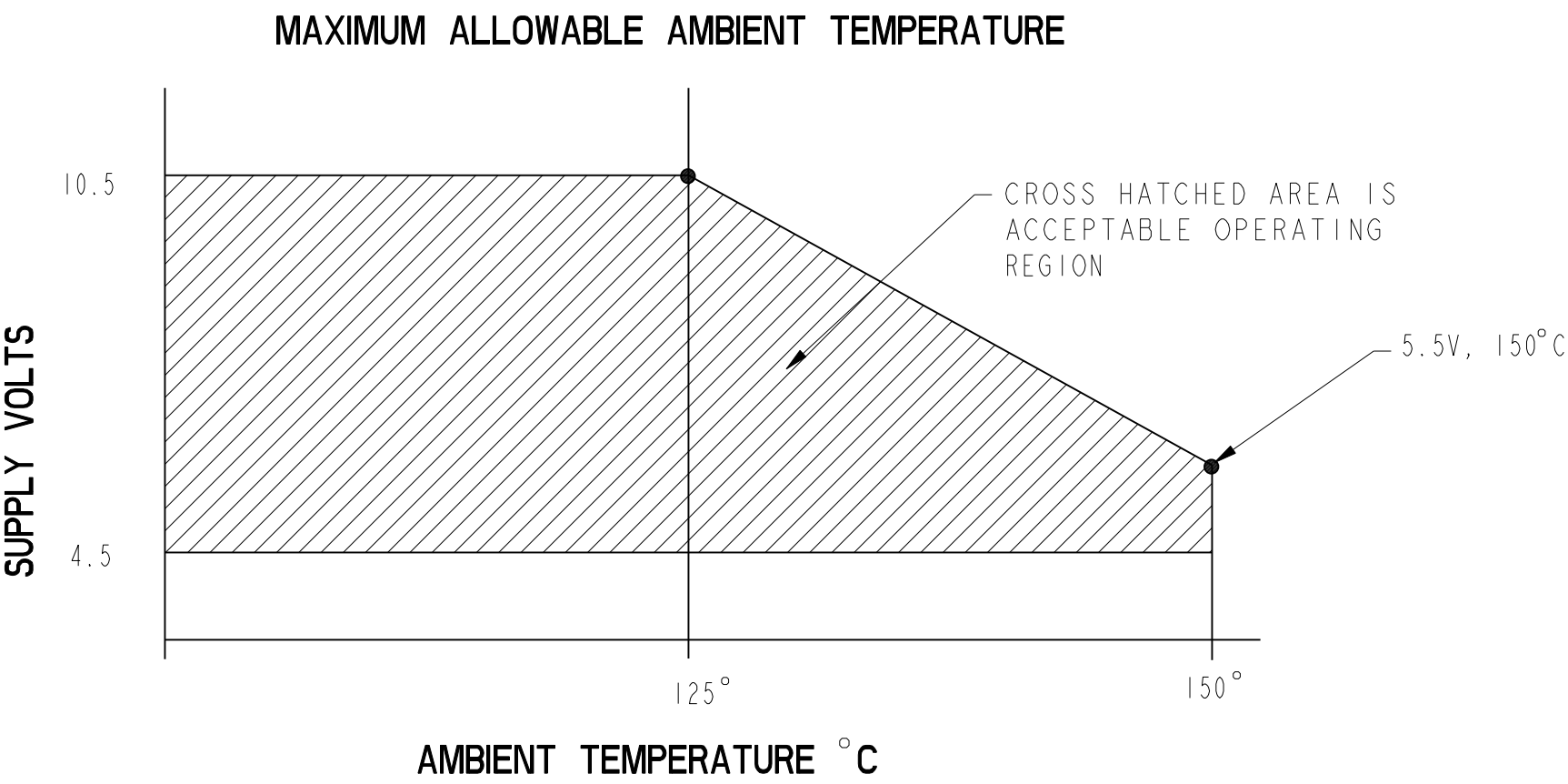
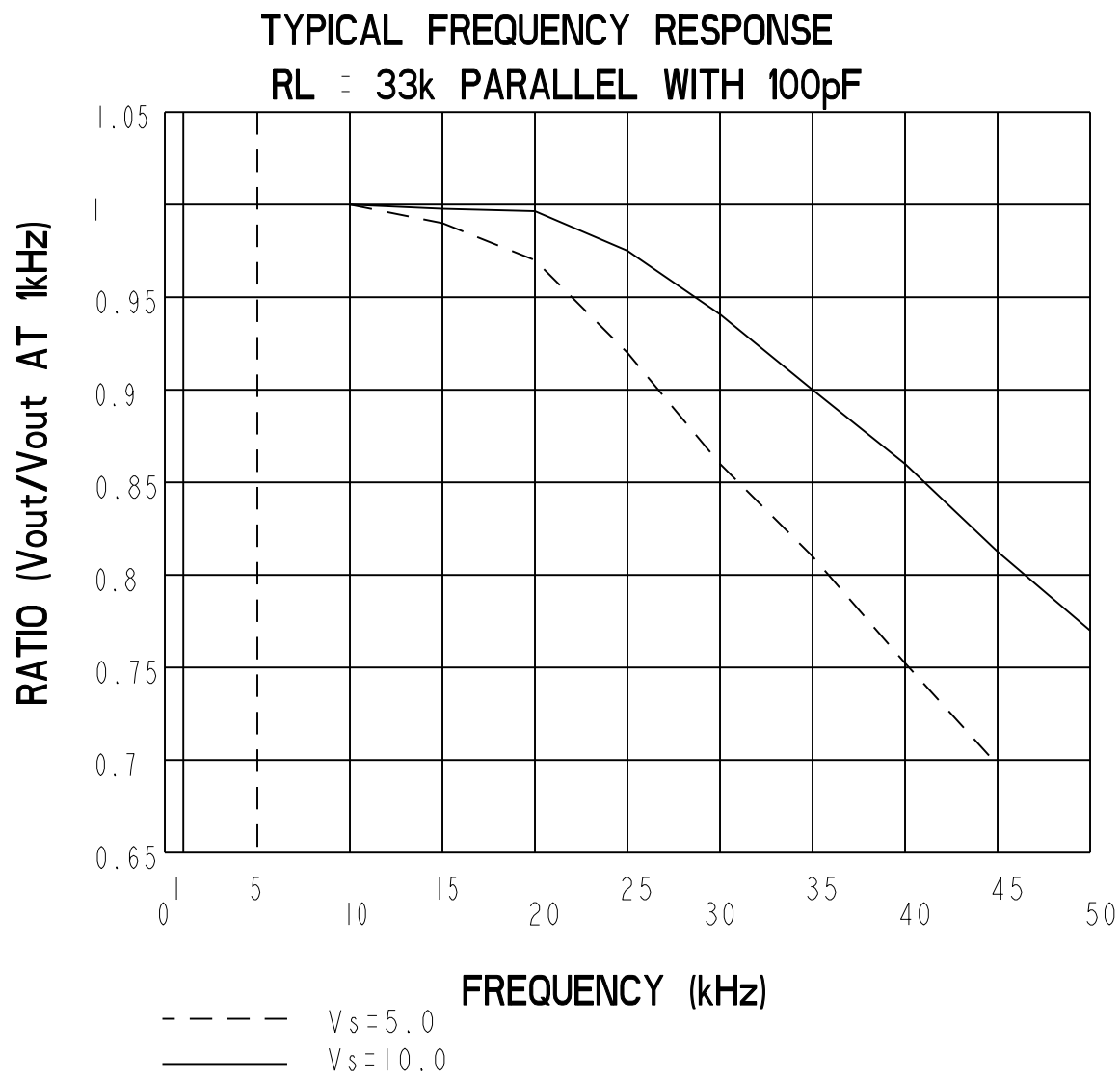
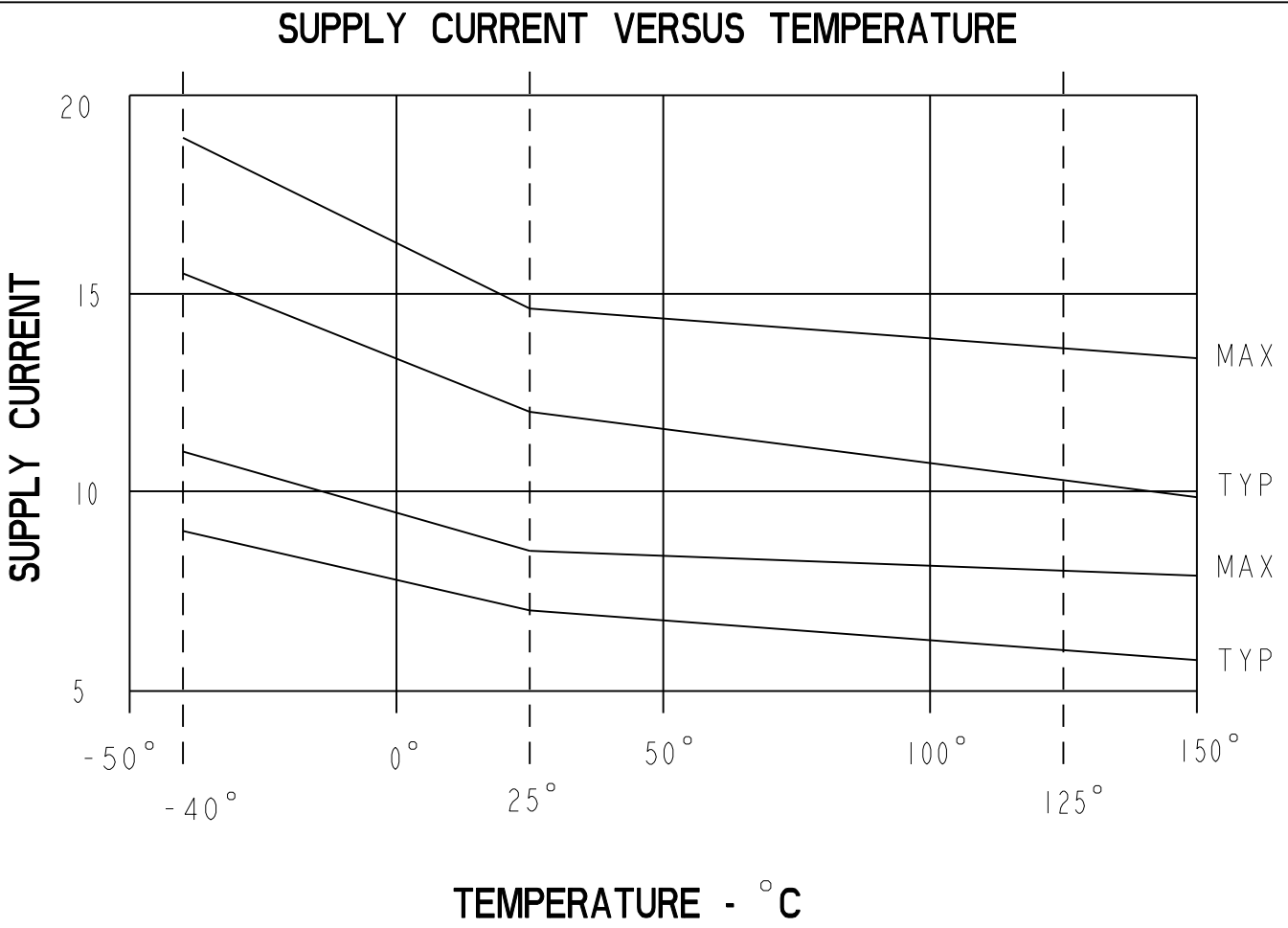
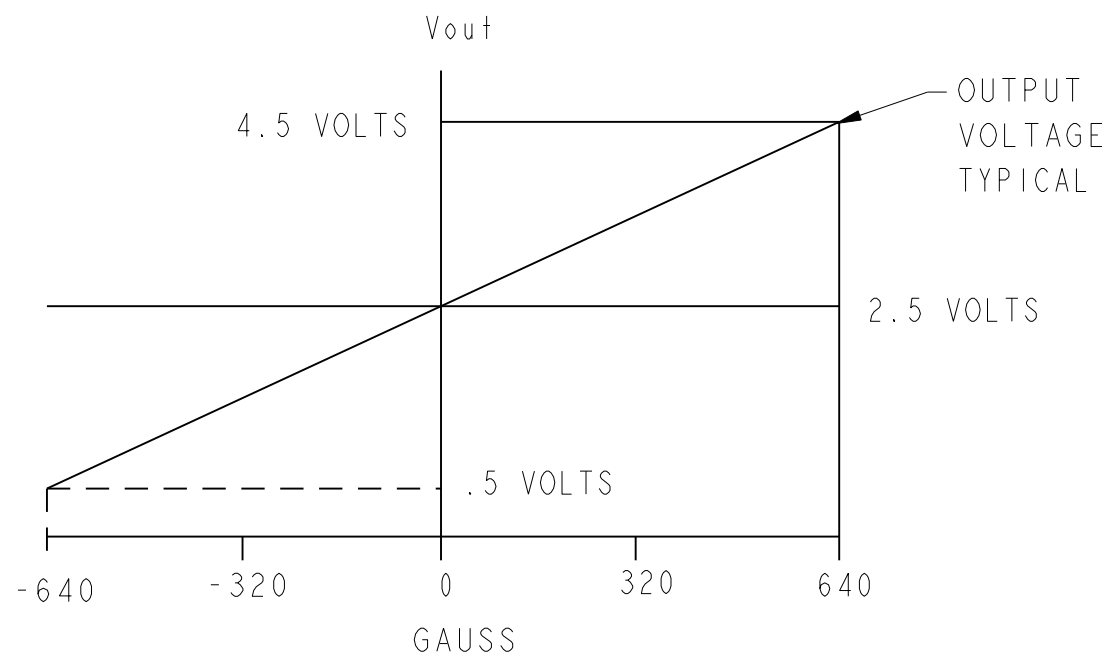


ABSOLUTE MAXIMUM CHARACTERISTICS

| CHARACTERISTIC | SYMBOL | TEST CONDITION  | MIN  | MAX | UNITS |
|----------------|--------|-----------------|------|-----|-------|
| SUPPLY VOLTAGE | Vcc    |                 | -0.5 | 11  | V     |
| OUTPUT VOLTAGE | Vout   |                 | -0.5 | 11  | V     |
| OUTPUT CURRENT | Iout   | SOURCE OR SINK  | 10   |     | mA    |
| TEMPERATURE    | TA     | OPERATING       | -55  | 150 | °C    |
|                | TS     | STORAGE (Vcc=0) | -55  | 165 | °C    |



TRANSFER CHARACTERISTICS AT Vs = 5.0 VDC



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CATALOG LISTING

**SS495 SERIES CHART 1**

MINIATURE RATIONETRIC  
LINEAR HALL EFFECT SENSOR

|                                           |              |
|-------------------------------------------|--------------|
| THIRD ANGLE PROJECTION                    |              |
| SCALE                                     | NONE         |
| DO NOT SCALE PRINT                        |              |
| UNLESS OTHERWISE SPECIFIED TOLERANCES ARE |              |
| ONE PLACE                                 | (.0) +.030   |
| TWO PLACE                                 | (.00) +.015  |
| THREE PLACE                               | (.000) +.005 |
| ANGLES                                    | + 2°         |
| WEIGHT                                    |              |

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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Факс: 8 (812) 320-03-32

Электронная почта: [ocean@oceanchips.ru](mailto:ocean@oceanchips.ru)

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А