

1. HOW TO ORDER

| | | | | | | |
|-------------------|--|--|------------------|--------------------|--|--------------|
| <u>H</u> | <u>G</u> | <u>C</u> | <u>106</u> | <u>M</u> | <u>035</u> | <u>T</u> |
| Product Type | Feature | Case Size | Capacitance Code | Tolerance | DC Voltage | Packing Type |
| H Means HKT Brand | G : General Purpose L:High Frequency and Low ESR | A3.2*1.6 B3.5*2.8 C6.0*3.2 D7.3*4.3 E7.3*4.3 V7.3*6.1 | 106=10uF | K=± 10% M=± 20% | 004=4V 006=6.3V 010=10V 016=16V 020=20V 025=25V 035=35V 050=50V | T=Tape Reel |

2. TECHNICAL SPECIFICATIONS

Technical Data: All technical data relate to an ambient temperature of +25°C

| | | | | | | | | | | |
|----------------------------|---|-----|-----|-----|----|----|----|----|----|----|
| Capacitance Range: | 0.1 μ F to 2200 μ F | | | | | | | | | |
| Capacitance Tolerance: | \pm 10%; \pm 20% | | | | | | | | | |
| Rated Voltage (V_R) | +85°C: | 2.5 | 4 | 6.3 | 10 | 16 | 20 | 25 | 35 | 50 |
| Category Voltage (V_C) | +125°C: | 1.7 | 2.7 | 4 | 7 | 10 | 13 | 17 | 23 | 33 |
| Surge Voltage (V_S) | +85°C: | 3.3 | 5.2 | 8 | 13 | 20 | 26 | 32 | 46 | 65 |
| Surge Voltage (V_S) | +125°C: | 2.2 | 3.4 | 5 | 8 | 13 | 16 | 20 | 28 | 40 |
| Temperature Range: | -55°C to +125°C | | | | | | | | | |
| Reliability: | 1% per 1000 hours at 85°C, V_R with 0.1 Ω/V_R series impedance, 60% confidence level | | | | | | | | | |
| Qualification: | CECC 30801 - 005 issue 2 EIA 535BAAC | | | | | | | | | |
| | Meets requirements of AEC-Q200 | | | | | | | | | |

3. CAPACITANCE AND RATED VOLTAGE, V_R (VOLTAGE CODE) RANGE (LETTER DENOTES CASE SIZE)

| Capacitance | | Rated voltage DC (V_R) to 85°C | | | | | | | | |
|----------------------|-------------------|------------------------------------|----------------------------------|---------------------------|--------------------------------------|---|-----------------------|---------------------|----------------------------------|-------------------|
| μF | Code | 2.5V (e) | 4V (G) | 6.3V (J) | 10V (A) | 16V (C) | 20V (D) | 25V (E) | 35V (V) | 50V (T) |
| 0.10 0.15 0.22 | 104 154 224 | | | | | | | | A A A | A A/B A/B |
| 0.33 0.47 0.68 | 334 474 684 | | | | | | A | A A | A A/B A/B | B B/C B/C |
| 1.0 1.5 2.2 | 105 155 225 | | | A | A A | AA A/B | AA A/B | A A/B A/B | A/B A/B/C A/B/C | B/C C/D C/D |
| 3.3 4.7 6.8 | 335 475 685 | | A A | AA A/B | A A/B A/B | A/B A/B A/B/C | A/B A/B/C A/B/C | A/B/C B/C B/C | B/C B/C/D C/D | C/D D D |
| 10 15 22 | 106 156 226 | | A A/B A | A/B A/B A/B/C | A/B/C A/B/C A/B/C | A/B/C A ^(M) /B/C B/C/D | B/C B/C/D B/C/D | C/D C/D C/D | C/D/E C/D D/E | D/E E V |
| 33 47 68 | 336 476 686 | A A | A/B A/B B/C | A/B/C A/B/C/D B/C/D | A/B/C/D B/C/D B/C/D | B/C/D C/D C/D | C/D C/D/E D/E | D/E D/E E/V | D/E/V E/V V ^(M) | |
| 100 150 220 | 107 157 227 | B B B/D | B/C B/C B ^(M) /C/D | B/C/D C/D C/D/E | B ^(M) /C/D/E C/D/E D/E | D/E D/E/V D/E/V | D/E/V E/V | V | | |
| 330 470 680 | 337 477 687 | D C/D D/E | C/D/E D/E D/E | C/D/E D/E/V E/V | D/E/V E/V V | E/V | | | | |
| 1000 1500 2200 | 108 158 228 | D ^(M) /E D/E/V V | D/E/V E/V ^(M) | V ^(M) | | | | | | |

Non preferred Ratings - not recommended for new designs, higher voltage or smaller case size substitution are offered.

Developmental Ratings - subject to change.

Released codes ^(M tolerance only)

Note: Voltage ratings are minimum values.

higher ratings in the same case size, to the same reliability standards.

4. CASE DIMENSIONS: millimeters (inches)

| | Code | EIA Code | $L \pm 0.20$ (0.008) | $W + 0.20$ (0.008) $- 0.10$ (0.004) | $H + 0.20$ (0.008) $- 0.10$ (0.004) | $W_1 \pm 0.20$ (0.008) | $A + 0.30$ (0.012) $- 0.20$ (0.008) | S Min. |
|--|------|----------|----------------------|--|--|------------------------|--|-------------|
| | A | 3216-18 | 3.20(0.126) | 1.60(0.063) | 1.60(0.063) | 1.20(0.047) | 0.80(0.031) | 1.80(0.071) |
| | B | 3528-21 | 3.50(0.138) | 2.80(0.110) | 1.90(0.075) | 2.20(0.087) | 0.80(0.031) | 1.40(0.055) |
| | C | 6032-28 | 6.00(0.236) | 3.20(0.126) | 2.60(0.102) | 2.20(0.087) | 1.30(0.051) | 2.90(0.114) |
| | D | 7343-31 | 7.30(0.287) | 4.30(0.169) | 2.90(0.114) | 2.40(0.094) | 1.30(0.051) | 4.40(0.173) |
| | E | 7343-43 | 7.30(0.287) | 4.30(0.169) | 4.10(0.162) | 2.40(0.094) | 1.30(0.051) | 4.40(0.173) |
| | V | 7361-38 | 7.30(0.287) | 6.10(0.240) | 3.45 ± 0.30 (0.136 ± 0.012) | 3.10(0.120) | 1.40(0.055) | 4.40(0.173) |

For part marking see page 157

W_1 dimension applies to the termination width for A dimensional area only.

5. RATINGS & PART NUMBER REFERENCE

| HKT PartNo. | Case Size | Capacitance (μF) | Rated Voltage (V) | DCL (μA) Max. | DF % Max. | ESR Max. (Ω) @100kHz |
|-------------|-----------|------------------|-------------------|---------------|-----------|----------------------|
| A476*002 | A | 47 | 2.5 | 0.9 | 6 | 3 |
| A686*002 | A | 68 | 2.5 | 1.4 | 8 | 1.5 |
| B107*002 | B | 100 | 2.5 | 2.5 | 8 | 1.4 |
| B157*002 | B | 150 | 2.5 | 3 | 10 | 1.6 |
| B227*002 | B | 220 | 2.5 | 4.4 | 16 | 1.6 |
| D227*002 | D | 220 | 2.5 | 5.5 | 8 | 0.3 |
| D337*002 | D | 330 | 2.5 | 8.2 | 8 | 0.3 |
| C477*002 | C | 470 | 2.5 | 9.4 | 12 | 0.2 |
| D477*002 | D | 470 | 2.5 | 11.6 | 8 | 0.2 |
| D687*002 | D | 680 | 2.5 | 17 | 16 | 0.2 |
| E687*002 | E | 680 | 2.5 | 17 | 10 | 0.2 |
| D108*002 | D | 1000 | 2.5 | 25 | 20 | 0.2 |
| E108*002 | E | 1000 | 2.5 | 20 | 14 | 0.4 |
| D158*002 | D | 1500 | 2.5 | 37.5 | 60 | 0.2 |
| E158*002 | E | 1500 | 2.5 | 37 | 20 | 0.2 |
| V158*002 | V | 1500 | 2.5 | 30 | 20 | 0.2 |
| V228*002 | V | 2200 | 2.5 | 55 | 50 | 0.2 |
| A336*004 | A | 33 | 4 | 1.3 | 6 | 3 |
| A476*004 | A | 47 | 4 | 1.9 | 8 | 2.6 |
| B686*004 | B | 68 | 4 | 2.7 | 6 | 1.8 |
| B107*004 | B | 100 | 4 | 4 | 8 | 0.9 |
| B157*004 | B | 150 | 4 | 6 | 8 | 1.5 |
| C157*004 | C | 150 | 4 | 6 | 6 | 0.3 |
| B227*004 | B | 220 | 4 | 8.8 | 12 | 1.1 |
| C227*004 | C | 220 | 4 | 8.8 | 8 | 1.2 |
| D227*004 | D | 220 | 4 | 8.8 | 8 | 0.9 |
| C337*004 | C | 330 | 4 | 13.2 | 8 | 0.9 |
| D337*004 | D | 330 | 4 | 13.2 | 8 | 0.9 |
| D477*004 | D | 470 | 4 | 18.8 | 12 | 0.9 |
| E477*004 | E | 470 | 4 | 18.8 | 10 | 0.5 |
| D687*004 | D | 680 | 4 | 27.2 | 14 | 0.5 |
| E687*004 | E | 680 | 4 | 27.2 | 14 | 0.9 |
| D108*004 | D | 1000 | 4 | 40 | 60 | 0.2 |
| E108*004 | E | 1000 | 4 | 40 | 14 | 0.4 |
| V108*004 | V | 1000 | 4 | 40 | 16 | 0.4 |
| E158*004 | E | 1500 | 4 | 60 | 30 | 0.2 |
| V158*004 | V | 1500 | 4 | 60 | 30 | 0.2 |
| A106*006 | A | 10 | 6.3 | 0.6 | 6 | 4 |
| A156*006 | A | 15 | 6.3 | 0.9 | 6 | 3.5 |
| A226*006 | A | 22 | 6.3 | 1.4 | 6 | 3 |
| A336*006 | A | 33 | 6.3 | 2.1 | 8 | 2.5 |
| A476*006 | A | 47 | 6.3 | 2.8 | 10 | 1.6 |
| B476*006 | B | 47 | 6.3 | 3 | 6 | 2 |
| C476*006 | C | 47 | 6.3 | 3 | 6 | 1.6 |
| B686*006 | B | 68 | 6.3 | 4 | 8 | 0.9 |
| C686*006 | C | 68 | 6.3 | 4.3 | 6 | 1.5 |
| B107*006 | B | 100 | 6.3 | 6.3 | 10 | 1.7 |
| C107*006 | C | 100 | 6.3 | 6.3 | 6 | 0.9 |
| C157*006 | C | 150 | 6.3 | 9.5 | 6 | 1.3 |
| D157*006 | D | 150 | 6.3 | 9.5 | 6 | 0.9 |
| C227*006 | C | 220 | 6.3 | 13.9 | 8 | 1.2 |
| D227*006 | D | 220 | 6.3 | 13.9 | 8 | 0.9 |
| E227*006 | E | 220 | 6.3 | 13.9 | 8 | 0.9 |
| D337*006 | D | 330 | 6.3 | 20.8 | 8 | 0.4 |
| E337*006 | E | 330 | 6.3 | 20.8 | 8 | 0.4 |
| D477*006 | D | 470 | 6.3 | 28 | 12 | 0.4 |
| E477*006 | E | 470 | 6.3 | 28 | 10 | 0.4 |
| V477*006 | V | 470 | 6.3 | 28 | 10 | 0.4 |
| E687*006 | E | 680 | 6.3 | 42.8 | 10 | 0.5 |
| V687*006 | V | 680 | 6.3 | 42.8 | 10 | 0.5 |
| V108*006 | V | 1000 | 6.3 | 63 | 16 | 0.4 |
| A475*010 | A | 4.7 | 10 | 0.5 | 6 | 5 |
| A685*010 | A | 6.8 | 10 | 0.7 | 6 | 4 |
| A106*010 | A | 10 | 10 | 1 | 6 | 3 |
| A156*010 | A | 15 | 10 | 1.5 | 6 | 3.2 |
| B156*010 | B | 15 | 10 | 1.5 | 6 | 2.8 |
| A226*010 | A | 22 | 10 | 2.2 | 8 | 3 |
| B226*010 | B | 22 | 10 | 2.2 | 6 | 2.4 |
| A336*010 | A | 33 | 10 | 3.3 | 8 | 1.7 |
| B336*010 | B | 33 | 10 | 3.3 | 6 | 1.8 |
| C336*010 | C | 33 | 10 | 3.3 | 6 | 1.6 |
| B476*010 | B | 47 | 10 | 4.7 | 8 | 1 |
| C476*010 | C | 47 | 10 | 4.7 | 6 | 1.2 |
| B686*010 | B | 68 | 10 | 6.8 | 6 | 1.4 |
| C686*010 | C | 68 | 10 | 6.8 | 6 | 1.3 |
| B107*010 | B | 100 | 10 | 10 | 8 | 1.4 |
| C107*010 | C | 100 | 10 | 10 | 8 | 1.2 |
| D107*010 | D | 100 | 10 | 10 | 6 | 0.9 |
| C157*010 | C | 150 | 10 | 15 | 8 | 0.9 |
| D157*010 | D | 150 | 10 | 15 | 6 | 0.9 |
| E157*010 | E | 150 | 10 | 15 | 8 | 0.9 |
| D227*010 | D | 220 | 10 | 22 | 8 | 0.5 |
| E227*010 | E | 220 | 10 | 22 | 8 | 0.5 |
| D337*010 | D | 330 | 10 | 33 | 8 | 0.9 |
| E337*010 | E | 330 | 10 | 33 | 8 | 0.9 |
| V337*010 | V | 330 | 10 | 33 | 10 | 0.9 |
| E477*010 | E | 470 | 10 | 47 | 10 | 0.5 |
| V477*010 | V | 470 | 10 | 47 | 10 | 0.5 |
| A225*016 | A | 2.2 | 16 | 0.5 | 6 | 6.5 |
| A335*016 | A | 3.3 | 16 | 0.5 | 6 | 5 |
| B335*016 | B | 3.3 | 16 | 0.5 | 6 | 4.5 |
| A475*016 | A | 4.7 | 16 | 0.8 | 6 | 4 |
| B475*016 | B | 4.7 | 16 | 0.8 | 6 | 3.5 |
| A685*016 | A | 6.8 | 16 | 1.1 | 6 | 3.5 |
| B685*016 | B | 6.8 | 16 | 1.1 | 6 | 2.5 |
| A106*016 | A | 10 | 16 | 1.6 | 8 | 3 |
| B106*016 | B | 10 | 16 | 1.6 | 6 | 2.8 |
| C106*016 | C | 10 | 16 | 1.6 | 6 | 2 |
| A156*016 | A | 15 | 16 | 2.4 | 6 | 2 |
| B156*016 | B | 15 | 16 | 2.4 | 6 | 2.5 |
| C156*016 | C | 15 | 16 | 2.4 | 6 | 1.8 |
| B226*016 | B | 22 | 16 | 3.5 | 6 | 2.3 |
| C226*016 | C | 22 | 16 | 3.5 | 6 | 1.6 |
| D226*016 | D | 22 | 16 | 3.5 | 6 | 1.1 |
| B336*016 | B | 33 | 16 | 5.3 | 8 | 2.1 |
| C336*016 | C | 33 | 16 | 5.3 | 6 | 1.5 |
| D336*016 | D | 33 | 16 | 5.3 | 6 | 0.9 |
| C476*016 | C | 47 | 16 | 7.5 | 6 | 1.4 |
| D476*016 | D | 47 | 16 | 7.5 | 6 | 0.9 |
| C686*016 | C | 68 | 16 | 10.9 | 6 | 1.3 |
| D686*016 | D | 68 | 16 | 10.9 | 6 | 0.9 |
| D107*016 | D | 100 | 16 | 16 | 6 | 0.9 |
| E107*016 | E | 100 | 16 | 16 | 6 | 0.9 |
| D157*016 | D | 150 | 16 | 24 | 6 | 0.9 |

RATINGS & PART NUMBER REFERENCE

| HKT PartNo. | Case Size | Capacitance (µF) | Rated Voltage (V) | DCL (µA) Max. | DF % Max. | ESR Max. (Ω) @100kHz |
|-------------|-----------|------------------|-------------------|---------------|-----------|----------------------|
| E157*016 | E | 150 | 16 | 24 | 8 | 0.3 |
| V157*016 | V | 150 | 16 | 24 | 8 | 0.5 |
| E227*016 | E | 220 | 16 | 35.2 | 10 | 0.5 |
| V227*016 | V | 220 | 16 | 35.2 | 8 | 0.9 |
| A105*020 | A | 1 | 20 | 0.5 | 4 | 9 |
| A155*020 | A | 1.5 | 20 | 0.5 | 6 | 6.5 |
| A225*020 | A | 2.2 | 20 | 0.5 | 6 | 5.3 |
| B225*020 | B | 2.2 | 20 | 0.5 | 6 | 3.5 |
| A335*020 | A | 3.3 | 20 | 0.7 | 6 | 4.5 |
| B335*020 | B | 3.3 | 20 | 0.7 | 6 | 3 |
| A475*020 | A | 4.7 | 20 | 0.9 | 6 | 4 |
| B475*020 | B | 4.7 | 20 | 0.9 | 6 | 3 |
| A685*020 | A | 6.8 | 20 | 1.4 | 6 | 2.5 |
| B685*020 | B | 6.8 | 20 | 1.4 | 6 | 2.5 |
| C685*020 | C | 6.8 | 20 | 1.4 | 6 | 2 |
| B106*020 | B | 10 | 20 | 2 | 6 | 2.1 |
| C106*020 | C | 10 | 20 | 2 | 6 | 1.9 |
| B156*020 | B | 15 | 20 | 3 | 6 | 2 |
| C156*020 | C | 15 | 20 | 3 | 6 | 1.7 |
| B226*020 | B | 22 | 20 | 4.4 | 6 | 1.8 |
| C226*020 | C | 22 | 20 | 4.4 | 6 | 1.6 |
| D226*020 | D | 22 | 20 | 4.4 | 6 | 0.9 |
| C336*020 | C | 33 | 20 | 6.6 | 6 | 1.5 |
| D336*020 | D | 33 | 20 | 6.6 | 6 | 0.9 |
| C476*020 | C | 47 | 20 | 9.4 | 6 | 0.9 |
| D476*020 | D | 47 | 20 | 9.4 | 6 | 0.9 |
| E476*020 | E | 47 | 20 | 9.4 | 6 | 0.9 |
| D686*020 | D | 68 | 20 | 13.6 | 6 | 0.9 |
| E686*020 | E | 68 | 20 | 13.6 | 6 | 0.9 |
| D107*020 | D | 100 | 20 | 20 | 6 | 0.9 |
| E107*020 | E | 100 | 20 | 20 | 6 | 0.9 |
| V107*020 | V | 100 | 20 | 20 | 8 | 0.9 |
| E157*020 | E | 150 | 20 | 30 | 8 | 0.3 |
| V157*020 | V | 150 | 20 | 30 | 8 | 0.5 |
| A474*025 | A | 0.47 | 25 | 0.5 | 4 | 14 |
| A684*025 | A | 0.68 | 25 | 0.5 | 4 | 10 |
| A105*025 | A | 1 | 25 | 0.5 | 4 | 8 |
| A155*025 | A | 1.5 | 25 | 0.5 | 6 | 7.5 |
| B155*025 | B | 1.5 | 25 | 0.5 | 6 | 5 |
| A225*025 | A | 2.2 | 25 | 0.6 | 6 | 7 |
| B225*025 | B | 2.2 | 25 | 0.6 | 6 | 4.5 |
| A335*025 | A | 3.3 | 25 | 0.8 | 6 | 3.7 |
| B335*025 | B | 3.3 | 25 | 0.8 | 6 | 3.5 |
| B475*025 | B | 4.7 | 25 | 1.2 | 6 | 2.8 |
| B685*025 | B | 6.8 | 25 | 1.7 | 6 | 2.8 |
| C685*025 | C | 6.8 | 25 | 1.7 | 6 | 2 |
| C106*025 | C | 10 | 25 | 2.5 | 6 | 1.8 |
| D106*025 | D | 10 | 25 | 2.5 | 6 | 1.2 |
| C156*025 | C | 15 | 25 | 3.8 | 6 | 1.6 |
| D156*025 | D | 15 | 25 | 3.8 | 6 | 1 |
| C226*025 | C | 22 | 25 | 5.5 | 6 | 1.4 |
| D226*025 | D | 22 | 25 | 5.5 | 6 | 0.9 |
| D336*025 | D | 33 | 25 | 8.3 | 6 | 0.9 |
| E336*025 | E | 33 | 25 | 8.3 | 6 | 0.9 |
| D476*025 | D | 47 | 25 | 11.8 | 6 | 0.9 |
| E476*025 | E | 47 | 25 | 11.8 | 6 | 0.9 |
| E686*025 | E | 68 | 25 | 17 | 6 | 0.9 |
| V686*025 | V | 68 | 25 | 17 | 6 | 0.9 |
| V107*025 | V | 100 | 25 | 25 | 8 | 0.4 |
| A104*035 | A | 0.1 | 35 | 0.5 | 4 | 24 |

| HKT PartNo. | Case Size | Capacitance (µF) | Rated Voltage (V) | DCL (µA) Max. | DF % Max. | ESR Max. (Ω) @100kHz |
|-------------|-----------|------------------|-------------------|---------------|-----------|----------------------|
| A154*035 | A | 0.15 | 35 | 0.5 | 4 | 21 |
| A224*035 | A | 0.22 | 35 | 0.5 | 4 | 18 |
| A334*035 | A | 0.33 | 35 | 0.5 | 4 | 15 |
| A474*035 | A | 0.47 | 35 | 0.5 | 4 | 12 |
| B474*035 | B | 0.47 | 35 | 0.5 | 4 | 10 |
| A684*035 | A | 0.68 | 35 | 0.5 | 4 | 8 |
| B684*035 | B | 0.68 | 35 | 0.5 | 4 | 8 |
| A105*035 | A | 1 | 35 | 0.5 | 4 | 7.5 |
| B105*035 | B | 1 | 35 | 0.5 | 4 | 6.5 |
| A155*035 | A | 1.5 | 35 | 0.5 | 6 | 7.5 |
| B155*035 | B | 1.5 | 35 | 0.5 | 6 | 5.2 |
| C155*035 | C | 1.5 | 35 | 0.5 | 6 | 4.5 |
| A225*035 | A | 2.2 | 35 | 0.8 | 6 | 4.5 |
| B225*035 | B | 2.2 | 35 | 0.8 | 6 | 4.2 |
| C225*035 | C | 2.2 | 35 | 0.8 | 6 | 3.5 |
| B335*035 | B | 3.3 | 35 | 1.2 | 6 | 3.5 |
| C335*035 | C | 3.3 | 35 | 1.2 | 6 | 2.5 |
| B475*035 | B | 4.7 | 35 | 1.2 | 6 | 3.1 |
| C475*035 | C | 4.7 | 35 | 1.6 | 6 | 2.2 |
| D475*035 | D | 4.7 | 35 | 1.6 | 6 | 1.5 |
| C685*035 | C | 6.8 | 35 | 2.4 | 6 | 1.8 |
| D685*035 | D | 6.8 | 35 | 2.4 | 6 | 1.3 |
| C106*035 | C | 10 | 35 | 3.5 | 6 | 1.6 |
| D106*035 | D | 10 | 35 | 3.5 | 6 | 1 |
| E106*035 | E | 10 | 35 | 3.5 | 6 | 0.9 |
| C156*035 | C | 15 | 35 | 5.3 | 6 | 1.4 |
| D156*035 | D | 15 | 35 | 5.3 | 6 | 0.9 |
| D226*035 | D | 22 | 35 | 7.7 | 6 | 0.9 |
| E226*035 | E | 22 | 35 | 7.7 | 6 | 0.9 |
| D336*035 | D | 33 | 35 | 11.6 | 6 | 0.9 |
| E336*035 | E | 33 | 35 | 11.6 | 6 | 0.9 |
| V336*035 | V | 33 | 35 | 11.6 | 6 | 500 |
| E476*035 | E | 47 | 35 | 16.5 | 6 | 0.9 |
| V476*035 | V | 47 | 35 | 16.5 | 6 | 0.4 |
| V686 * 035 | V | 68 | 35 | 23.8 | 6 | 0.5 |
| A104*050 | A | 0.1 | 50 | 0.5 | 4 | 22 |
| A154*050 | A | 0.15 | 50 | 0.5 | 4 | 15 |
| B154*050 | B | 0.15 | 50 | 0.5 | 4 | 17 |
| A224*050 | A | 0.22 | 50 | 0.5 | 4 | 18 |
| B224*050 | B | 0.22 | 50 | 0.5 | 4 | 14 |
| B334*050 | B | 0.33 | 50 | 0.5 | 4 | 12 |
| B474*050 | B | 0.47 | 50 | 0.7 | 4 | 9.5 |
| C474*050 | C | 0.47 | 50 | 0.5 | 4 | 8 |
| B684*050 | B | 0.68 | 50 | 0.5 | 4 | 8 |
| C684*050 | C | 0.68 | 50 | 0.5 | 4 | 7 |
| B105*050 | B | 1 | 50 | 0.5 | 4 | 7 |
| C105*050 | C | 1 | 50 | 0.5 | 4 | 5.5 |
| C155*050 | C | 1.5 | 50 | 0.8 | 6 | 4.5 |
| D155*050 | D | 1.5 | 50 | 0.8 | 6 | 4 |
| C225*050 | C | 2.2 | 50 | 1.1 | 6 | 3 |
| D225*050 | D | 2.2 | 50 | 1.1 | 6 | 2.5 |
| C335*050 | C | 3.3 | 50 | 1.7 | 6 | 2.5 |
| D335*050 | D | 3.3 | 50 | 1.7 | 6 | 2 |
| D475*050 | D | 4.7 | 50 | 2.4 | 6 | 1.4 |
| D685*050 | D | 6.8 | 50 | 3.4 | 6 | 1 |
| D106*050 | D | 10 | 50 | 5 | 6 | 0.8 |
| E106*050 | E | 10 | 50 | 5 | 6 | 1 |
| E156*050 | E | 15 | 50 | 7.5 | 6 | 0.6 |
| V226*050 | V | 22 | 50 | 11 | 8 | 0.6 |