



## C750 SERIES

### SPECIFICATIONS

#### FEATURES

- 6, 10, 20 & 30 dB Standard Coupling Values
- Models from 0.5 to 18.0 GHz
- SMA Connectors
- Meet MIL-E-5400 Class 3 or Equivalent
- Screenable to MIL-C-15370 or Equivalent

| Frequency<br>(GHz) | Coupling<br>(dB) | Flatness <sup>1</sup><br>(dB) | VSWR <sup>2</sup><br>max | Loss <sup>3</sup><br>max<br>(dB) | Directivity<br>min<br>(dB) | Model<br>Number |
|--------------------|------------------|-------------------------------|--------------------------|----------------------------------|----------------------------|-----------------|
| 0.5-1              | 6 ± 1            | ± .6                          | 1.10                     | .15                              | 25                         | C751-6          |
| 0.5-1              | 10 ± 1           | ± .75                         | 1.10                     | .15                              | 25                         | C751-10         |
| 0.5-1              | 20 ± 1           | ± .75                         | 1.10                     | .15                              | 25                         | C751-20         |
| 0.5-1              | 30 ± 1           | ± .75                         | 1.10                     | .15                              | 25                         | C751-30         |
| 1-2                | 6 ± 1            | ± .6                          | 1.15                     | .2                               | 25                         | C752-6          |
| 1-2                | 10 ± 1           | ± .75                         | 1.15/1.10                | .2                               | 25                         | C752-10         |
| 1-2                | 20 ± 1           | ± .75                         | 1.15/1.10                | .2                               | 25                         | C752-20         |
| 1-2                | 30 ± 1           | ± .75                         | 1.15                     | .2                               | 25                         | C752-30         |
| 1.3-2.6            | 6 ± 1            | ± .6                          | 1.15                     | .2                               | 24                         | C752E-6         |
| 1.3-2.6            | 10 ± 1           | ± .75                         | 1.15                     | .2                               | 24                         | C752E-10        |
| 1.3-2.6            | 20 ± 1           | ± .75                         | 1.15                     | .2                               | 24                         | C752E-20        |
| 1.3-2.6            | 30 ± 1           | ± .75                         | 1.15                     | .2                               | 24                         | C752E-30        |
| 2-4                | 6 ± 1            | ± .6                          | 1.15                     | .2                               | 22                         | C753-6          |
| 2-4                | 10 ± 1           | ± .75                         | 1.15                     | .2                               | 22                         | C753-10         |
| 2-4                | 20 ± 1           | ± .75                         | 1.15                     | .2                               | 22                         | C753-20         |
| 2-4                | 30 ± 1           | ± .75                         | 1.15                     | .2                               | 22                         | C753-30         |
| 2.6-5.2            | 6 ± 1            | ± .6                          | 1.25                     | .25                              | 20                         | C753E-6         |
| 2.6-5.2            | 10 ± 1           | ± .75                         | 1.25                     | .25                              | 20                         | C753E-10        |
| 2.6-5.2            | 20 ± 1           | ± .75                         | 1.25                     | .25                              | 20                         | C753E-20        |
| 4-8                | 6 ± 1            | ± .5                          | 1.25                     | .25                              | 18                         | C754-6          |
| 4-8                | 10 ± 1           | ± .5                          | 1.25                     | .25                              | 20                         | C754-10         |
| 4-8                | 20 ± 1           | ± .5                          | 1.25                     | .25                              | 20                         | C754-20         |
| 4-8                | 30 ± 1           | ± .5                          | 1.25                     | .25                              | 20                         | C754-30         |
| 4.8-9.6            | 6 ± 1            | ± .5                          | 1.27                     | .35                              | 18                         | C754E-6         |
| 4.8-9.6            | 10 ± 1           | ± .5                          | 1.27                     | .35                              | 18                         | C754E-10        |
| 4.8-9.6            | 20 ± 1           | ± .5                          | 1.27                     | .35                              | 18                         | C754E-20        |
| 4.8-9.6            | 30 ± 1           | ± .5                          | 1.27                     | .35                              | 18                         | C754E-30        |

NOTES: REFER TO PAGE 2



| Frequency<br>(GHz) | Coupling<br>(dB) | Flatness <sup>1</sup><br>(dB) | VSWR <sup>2</sup><br>max | Loss <sup>3</sup><br>max<br>(dB) | Directivity<br>min<br>(dB) | Model<br>Number |
|--------------------|------------------|-------------------------------|--------------------------|----------------------------------|----------------------------|-----------------|
| 7-12.4             | 6 ± 1            | ± .5                          | 1.30                     | .5                               | 15                         | C755-6          |
| 7-12.4             | 10 ± 1           | ± .5                          | 1.30                     | .5                               | 17                         | C755-10         |
| 7-12.4             | 20 ± 1           | ± .5                          | 1.25                     | .5                               | 17                         | C755-20         |
| 7-12.4             | 30 ± 1           | ± .5                          | 1.25                     | .5                               | 17                         | C755-30         |
| 12-18              | 6 ± 1            | ± .5                          | 1.35/1.40                | .8                               | 15                         | C756-6          |
| 12-18              | 10 ± 1           | ± .5                          | 1.35/1.40                | .6                               | 15                         | C756-10         |
| 12-18              | 20 ± 1           | ± .5                          | 1.35/1.40                | .6                               | 15                         | C756-20         |
| 12-18              | 30 ± 1           | ± .5                          | 1.35/1.40                | .6                               | 15                         | C756-30         |
| 6.5-18             | 6 ± 1            | ± .6                          | 1.35/1.40                | .8                               | 15                         | C756E-6         |
| 6.5-18             | 10 ± 1           | ± .75                         | 1.35/1.40                | .6                               | 15                         | C756E-10        |
| 6.5-18             | 20 ± 1           | ± .75                         | 1.35/1.40                | .6                               | 15                         | C756E-20        |
| 6.5-18             | 30 ± 1           | ± .75                         | 1.35/1.40                | .6                               | 15                         | C756E-30        |

## Power Handling:

Average incident 100 W at 1 GHz

| Average reflected Coupling | (W) |
|----------------------------|-----|
| -6                         | 2   |
| -10                        | 5   |
| -20                        | 50  |
| -30                        | 50  |

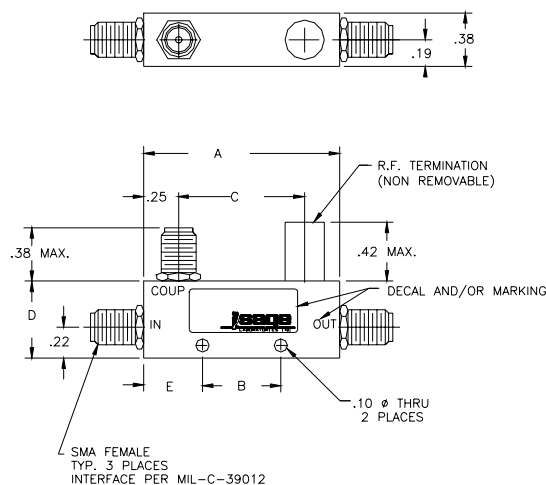
## Peak

|                   | (kW) |
|-------------------|------|
| C751 through C754 | 3    |
| C755 through C756 | 2    |

## NOTES:

1. Flatness specifies the maximum coupling variation within the coupling range.
2. Dual-valve entries indicate primary/secondary VSWR.
3. Loss is the actual dissipated and reflected loss. It does NOT include coupling loss.

## OUTLINE DRAWING



| Model<br>Numbers | Dimensions (See Drawing) |        |      |        |      |        |     | Weights |      |        |        |       |
|------------------|--------------------------|--------|------|--------|------|--------|-----|---------|------|--------|--------|-------|
|                  | A"                       | A (cm) | B"   | B (cm) | C"   | C (cm) | D"  | D (cm)  | E"   | E (cm) | Ounces | Grams |
| C751-6/10/20/30  | 3.00                     | (7,62) | 1.00 | (2,54) | 2.50 | (6,35) | .55 | (1,40)  | 1.00 | (2,54) | 1.3    | 37    |
| C752-6/10/20     | 1.78                     | (4,52) | .94  | (2,39) | 1.28 | (3,25) | .50 | (1,27)  | .42  | (1,07) | 0.8    | 23    |
| C752-30          | 1.78                     | (4,52) | .94  | (2,39) | 1.28 | (3,25) | .55 | (1,40)  | .42  | (1,07) | 0.9    | 26    |
| C752E-6/10/20    | 1.40                     | (3,57) | .57  | (1,45) | .90  | (2,27) | .50 | (1,27)  | .42  | (1,07) | 0.7    | 20    |
| C752E-30         | 1.40                     | (3,57) | .57  | (1,45) | .90  | (2,27) | .55 | (1,40)  | .42  | (1,07) | 0.8    | 23    |
| C753-6/10/20     | 1.16                     | (2,95) | .34  | (0,86) | .66  | (1,68) | .50 | (1,27)  | .41  | (1,04) | 0.6    | 17    |
| C753-30          | 1.16                     | (2,95) | .34  | (0,86) | .66  | (1,68) | .55 | (1,40)  | .41  | (1,04) | 0.7    | 20    |
| C753E-6/10/20    | 1.00                     | (2,54) | n/a  | n/a    | .50  | (1,27) | .50 | (1,27)  | .50  | (1,27) | 0.6    | 17    |
| C754-6/10/20     | 1.00                     | (2,54) | n/a  | n/a    | .50  | (1,27) | .50 | (1,27)  | .50  | (1,27) | 0.6    | 17    |
| C754-30          | 1.00                     | (2,54) | n/a  | n/a    | .50  | (1,27) | .55 | (1,40)  | .50  | (1,27) | 0.7    | 20    |
| C754E-6/10/20    | 1.00                     | (2,54) | n/a  | n/a    | .50  | (1,27) | .50 | (1,27)  | .50  | (1,27) | 0.6    | 17    |
| C754E-30         | 1.00                     | (2,54) | n/a  | n/a    | .50  | (1,27) | .55 | (1,40)  | .50  | (1,27) | 0.7    | 20    |
| C755-6           | 1.00                     | (2,54) | n/a  | n/a    | .50  | (1,27) | .50 | (1,27)  | .50  | (1,27) | 0.6    | 17    |
| C755-10/20/30    | 1.00                     | (2,54) | n/a  | n/a    | .50  | (1,27) | .55 | (1,40)  | .50  | (1,27) | 0.7    | 20    |
| C756-6           | 1.00                     | (2,54) | n/a  | n/a    | .50  | (1,27) | .50 | (1,27)  | .50  | (1,27) | 0.6    | 17    |
| C756-10/20/30    | 1.00                     | (2,54) | n/a  | n/a    | .50  | (1,27) | .55 | (1,40)  | .50  | (1,27) | 0.7    | 20    |
| C756E-6          | 1.00                     | (2,54) | n/a  | n/a    | .50  | (1,27) | .50 | (1,27)  | .50  | (1,27) | 0.6    | 17    |
| C756E-10/20/30   | 1.00                     | (2,54) | n/a  | n/a    | .50  | (1,27) | .55 | (1,40)  | .50  | (1,27) | 0.7    | 20    |

MISCELLANEOUS:

1. Spectrum Microwave "Standard Warranty and Order Terms and Conditions" apply to all orders.
2. All specifications subject to change without notice.
3. Check "Ordering and Availability Listing" for delivery and ordering information.
4. Contact our local Manufacturers Representative for pricing.

Specification Revision - 070710

