

This range of low cost co-axial isolators and circulators based on advanced ferrite materials technology is ideally suited for communications, radar and terrestrial radio applications.

- Operating frequency range 800 MHz – 18 GHz
- Isolation up to 23dB
- Insertion loss down to 0.3dB
- Peak power up to 500W
- Specified temperature ranges



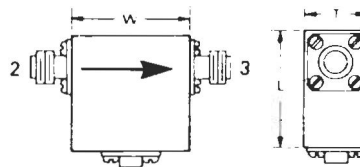


# STANDARD 3-PORT ISOLATORS & CIRCULATORS

| MODEL NO. | FREQUENCY GHz | ISOLATION dB (Min.) | INSERTION LOSS dB (Max.) | VSWR (Max.) | OPERATING TEMPERATURE °C | CIRCULATOR POWER (Watts) |         | DIMENSION (W x L x T) mm. | WEIGHT Grams |     |
|-----------|---------------|---------------------|--------------------------|-------------|--------------------------|--------------------------|---------|---------------------------|--------------|-----|
|           |               |                     |                          |             |                          | Peak                     | Average |                           |              |     |
| 1         | F7114-11      | 0.79 – 0.88         | 20                       | 0.5         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 2         | F7114-12      | 0.84 – 0.935        | 20                       | 0.5         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 3         | F7114-13      | 0.88 – 0.95         | 20                       | 0.5         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 4         | F7114-14      | 0.89 – 0.96         | 20                       | 0.5         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 5         | F7114-15      | 0.90 – 0.93         | 23                       | 0.5         | 1.15                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 6         | F7114-16      | 0.90 – 1.5          | 16                       | 0.8         | 1.45                     | 0 to +50                 | 100     | 50                        | 70 x 70 x 22 | 320 |
| 7         | F7114-05      | 0.91 – 0.92         | 23                       | 0.5         | 1.15                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 8         | F7114-06      | 0.91 – 1.05         | 18                       | 0.6         | 1.35                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 9         | F7114-17      | 0.93 – 0.965        | 23                       | 0.5         | 1.15                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 10        | F7114-18      | 0.95 – 1.0          | 20                       | 0.5         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 11        | F7114-07      | 0.95 – 1.05         | 20                       | 0.5         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 12        | F7114-08      | 0.96 – 1.25         | 20                       | 0.4         | 1.25                     | 0 to +50                 | 100     | 50                        | 70 x 70 x 22 | 320 |
| 13        | F7115-05      | 0.98 – 2.05         | 17                       | 0.6         | 1.35                     | 0 to +50                 | 100     | 50                        | 70 x 70 x 22 | 320 |
| 14        | F7114-09      | 1.0 – 1.1           | 20                       | 0.5         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 15        | F7115-06      | 1.0 – 2.0           | 17                       | 0.5         | 1.35                     | 0 to +50                 | 100     | 50                        | 70 x 70 x 22 | 320 |
| 16        | F7114-10      | 1.03 – 1.09         | 20                       | 0.5         | 1.25                     | 0 to +50                 | 500     | 50                        | 25 x 29 x 19 | 60  |
| 17        | F7115-07      | 1.12 – 2.24         | 17                       | 0.6         | 1.35                     | 0 to +50                 | 100     | 50                        | 70 x 70 x 22 | 320 |
| 18        | F7115-08      | 1.2 – 1.4           | 20                       | 0.5         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 19        | F7115-09      | 1.2 – 1.6           | 23                       | 0.5         | 1.15                     | 0 to +50                 | 100     | 50                        | 70 x 70 x 22 | 320 |
| 20        | F7115-10      | 1.3 – 1.5           | 20                       | 0.5         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 21        | F7115-23      | 1.35 – 1.85         | 20                       | 0.5         | 1.25                     | 0 to +50                 | 100     | 50                        | 70 x 70 x 22 | 320 |
| 22        | F7115-24      | 1.4 – 1.54          | 20                       | 0.4         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 23        | F7115-11      | 1.4 – 1.6           | 20                       | 0.5         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 24        | F7115-12      | 1.4 – 2.5           | 17                       | 0.5         | 1.35                     | 0 to +50                 | 100     | 50                        | 54 x 54 x 21 | 170 |
| 25        | F7115-13      | 1.5 – 1.7           | 20                       | 0.5         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 26        | F7116-05      | 1.5 – 3.0           | 17                       | 0.6         | 1.35                     | 0 to +50                 | 100     | 50                        | 54 x 54 x 21 | 170 |
| 27        | F7115-25      | 1.54 – 1.74         | 20                       | 0.5         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 28        | F7115-14      | 1.6 – 1.8           | 20                       | 0.5         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 29        | F7115-26      | 1.625 – 1.65        | 23                       | 0.4         | 1.15                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 30        | F7115-27      | 1.63 – 2.30         | 20                       | 0.4         | 1.25                     | 0 to +50                 | 100     | 50                        | 54 x 54 x 21 | 170 |
| 31        | F7115-15      | 1.65 – 1.85         | 20                       | 0.5         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 32        | F7115-16      | 1.7 – 1.9           | 20                       | 0.4         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 33        | F7115-17      | 1.7 – 2.0           | 20                       | 0.5         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 34        | F7115-28      | 1.7 – 2.1           | 23                       | 0.35        | 1.15                     | 0 to +50                 | 100     | 50                        | 54 x 54 x 21 | 170 |
| 35        | F7115-29      | 1.7 – 2.1           | 20                       | 0.5         | 1.25                     | 0 to +50                 | 250     | 50                        | 41 x 42 x 20 | 115 |
| 36        | F7115-18      | 1.7 – 2.3           | 23                       | 0.35        | 1.20                     | 0 to +50                 | 100     | 50                        | 54 x 54 x 21 | 170 |
| 37        | F7115-19      | 1.7 – 2.4           | 23                       | 0.4         | 1.20                     | 0 to +50                 | 100     | 50                        | 54 x 54 x 21 | 170 |
| 38        | F7115-20      | 1.8 – 2.0           | 20                       | 0.4         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 39        | F7115-21      | 1.8 – 2.1           | 20                       | 0.5         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 40        | F7115-22      | 1.9 – 2.1           | 20                       | 0.4         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 41        | F7116-06      | 1.9 – 2.3           | 20                       | 0.5         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 42        | F7116-07      | 2.0 – 2.3           | 20                       | 0.4         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 43        | F7116-08      | 2.0 – 2.5           | 20                       | 0.5         | 1.25                     | 0 to +50                 | 250     | 55                        | 41 x 42 x 20 | 115 |
| 44        | F7116-15      | 2.0 – 3.0           | 20                       | 0.5         | 1.25                     | 0 to +50                 | 250     | 55                        | 41 x 42 x 20 | 115 |
| 45        | F7117-05      | 2.0 – 4.0           | 18                       | 0.5         | 1.35                     | 0 to +50                 | 250     | 55                        | 41 x 42 x 20 | 115 |
| 46        | F7116-09      | 2.1 – 2.4           | 20                       | 0.4         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 47        | F7116-16      | 2.1 – 2.3           | 25                       | 0.3         | 1.10                     | 0 to +55                 | 250     | 50                        | 41 x 42 x 20 | 115 |
| 48        | F7116-17      | 2.1 – 2.3           | 20                       | 0.4         | 1.25                     | 0 to +50                 | 500     | 50                        | 32 x 34 x 19 | 80  |
| 49        | F7116-10      | 2.2 – 2.3           | 23                       | 0.4         | 1.15                     | –54 to +85               | 250     | 50                        | 32 x 34 x 19 | 65  |
| 50        | F7116-18      | 2.2 – 2.3           | 20                       | 0.4         | 1.25                     | 0 to +50                 | 250     | 55                        | 25 x 25 x 13 | 45  |



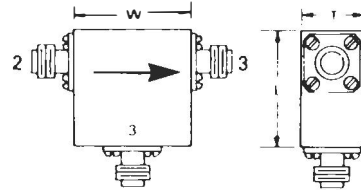
# ISOLATORS



| MODEL NO. | FREQUENCY GHz | ISOLATION dB (Min.) | INSERTION LOSS dB (Max.) | VSWR (Max.) | OPERATING TEMPERATURE °C | CIRCULATOR POWER (Watts) |         | DIMENSION (W x L x T) mm. | WEIGHT Grams |    |
|-----------|---------------|---------------------|--------------------------|-------------|--------------------------|--------------------------|---------|---------------------------|--------------|----|
|           |               |                     |                          |             |                          | Peak                     | Average |                           |              |    |
| 51        | F7116-11      | 2.3 - 2.5           | 23                       | 0.4         | 1.15                     | -54 to +85               | 250     | 25                        | 32 x 34 x 19 | 65 |
| 52        | F7116-19      | 2.3 - 2.5           | 20                       | 0.4         | 1.25                     | 0 to +55                 | 250     | 25                        | 25 x 25 x 13 | 45 |
| 53        | F7116-12      | 2.5 - 2.9           | 20                       | 0.4         | 1.25                     | 0 to +55                 | 250     | 25                        | 32 x 34 x 19 | 65 |
| 54        | F7116-20      | 2.5 - 2.9           | 20                       | 0.4         | 1.25                     | 0 to +55                 | 250     | 25                        | 25 x 25 x 13 | 45 |
| 55        | F7116-13      | 2.5 - 3.3           | 20                       | 0.4         | 1.25                     | 0 to +55                 | 250     | 25                        | 32 x 34 x 19 | 65 |
| 56        | F7116-21      | 2.5 - 3.3           | 20                       | 0.4         | 1.25                     | 0 to +55                 | 250     | 25                        | 25 x 25 x 13 | 45 |
| 57        | F7116-06      | 2.5 - 3.6           | 20                       | 0.4         | 1.25                     | 0 to +55                 | 250     | 25                        | 32 x 34 x 19 | 65 |
| 58        | F7117-07      | 2.6 - 3.4           | 20                       | 0.4         | 1.25                     | 0 to +55                 | 250     | 25                        | 32 x 34 x 19 | 65 |
| 59        | F7117-08      | 2.6 - 5.2           | 18                       | 0.5         | 1.35                     | 0 to +55                 | 250     | 25                        | 32 x 34 x 19 | 65 |
| 60        | F7116-14      | 2.7 - 3.1           | 20                       | 0.4         | 1.25                     | 0 to +55                 | 250     | 25                        | 32 x 34 x 19 | 65 |
| 61        | F7116-22      | 2.7 - 3.1           | 20                       | 0.4         | 1.25                     | 0 to +55                 | 250     | 25                        | 25 x 25 x 13 | 45 |
| 62        | F7118-05      | 2.7 - 5.4           | 17                       | 0.5         | 1.35                     | 0 to +55                 | 250     | 25                        | 32 x 34 x 19 | 65 |
| 63        | F7117-09      | 2.8 - 3.5           | 20                       | 0.4         | 1.25                     | 0 to +55                 | 250     | 25                        | 32 x 34 x 19 | 65 |
| 64        | F7117-13      | 3.0 - 4.0           | 20                       | 0.4         | 1.25                     | 0 to +55                 | 250     | 25                        | 32 x 34 x 19 | 65 |
| 65        | F7117-10      | 3.2 - 4.0           | 20                       | 0.4         | 1.25                     | 0 to +55                 | 250     | 25                        | 32 x 34 x 19 | 65 |
| 66        | F7117-11      | 3.4 - 4.2           | 23                       | 0.4         | 1.15                     | 0 to +55                 | 250     | 25                        | 25 x 29 x 18 | 50 |
| 67        | F7117-14      | 3.45 - 4.45         | 22                       | 0.4         | 1.15                     | 0 to +55                 | 250     | 25                        | 25 x 29 x 18 | 50 |
| 68        | F7117-15      | 3.5 - 4.2           | 23                       | 0.4         | 1.15                     | 0 to +55                 | 250     | 25                        | 25 x 29 x 18 | 50 |
| 69        | F7118-06      | 3.6 - 6.5           | 20                       | 0.4         | 1.25                     | 0 to +55                 | 250     | 25                        | 25 x 29 x 18 | 50 |
| 70        | F7117-16      | 3.625 - 4.2         | 25                       | 0.3         | 1.12                     | -54 to +85               | 250     | 25                        | 25 x 29 x 18 | 50 |
| 71        | F7117-12      | 3.7 - 4.2           | 25                       | 0.3         | 1.12                     | -54 to +85               | 250     | 25                        | 25 x 29 x 18 | 50 |
| 72        | F7118-07      | 4.0 - 4.6           | 20                       | 0.4         | 1.25                     | -54 to +85               | 250     | 25                        | 25 x 29 x 18 | 50 |
| 73        | F7118-08      | 4.0 - 5.0           | 20                       | 0.4         | 1.25                     | -54 to +85               | 250     | 25                        | 25 x 29 x 18 | 50 |
| 74        | F7118-09      | 4.0 - 6.0           | 20                       | 0.4         | 1.25                     | -54 to +85               | 250     | 25                        | 25 x 29 x 18 | 50 |
| 75        | F7119-05      | 4.0 - 8.0           | 20                       | 0.5         | 1.25                     | 0 to +55                 | 250     | 25                        | 25 x 29 x 18 | 50 |
| 76        | F7118-10      | 4.2 - 4.5           | 25                       | 0.4         | 1.13                     | -54 to +85               | 250     | 25                        | 25 x 29 x 18 | 50 |
| 77        | F7118-11      | 4.3 - 5.5           | 25                       | 0.4         | 1.13                     | -54 to +85               | 250     | 25                        | 25 x 29 x 18 | 50 |
| 78        | F7118-16      | 4.4 - 5.0           | 20                       | 0.4         | 1.25                     | -54 to +85               | 250     | 25                        | 21 x 21 x 13 | 35 |
| 79        | F7118-12      | 4.4 - 5.5           | 25                       | 0.4         | 1.13                     | -54 to +85               | 250     | 25                        | 25 x 29 x 18 | 50 |
| 80        | F7118-13      | 4.4 - 6.5           | 20                       | 0.4         | 1.25                     | -54 to +85               | 250     | 25                        | 25 x 29 x 18 | 50 |
| 81        | F7119-06      | 4.8 - 9.6           | 17                       | 0.6         | 1.40                     | 0 to +55                 | 250     | 25                        | 25 x 29 x 18 | 50 |
| 82        | F7118-14      | 5.0 - 6.0           | 23                       | 0.4         | 1.15                     | -54 to +85               | 250     | 25                        | 25 x 29 x 18 | 50 |
| 83        | F7119-07      | 5.0 - 7.0           | 20                       | 0.4         | 1.25                     | -54 to +85               | 250     | 25                        | 25 x 29 x 18 | 50 |
| 84        | F7119-17      | 5.2 - 10.4          | 17                       | 0.6         | 1.40                     | 0 to +55                 | 250     | 25                        | 19 x 24 x 17 | 34 |
| 85        | F7118-15      | 5.3 - 6.0           | 23                       | 0.4         | 1.15                     | -54 to +85               | 250     | 25                        | 25 x 29 x 18 | 50 |
| 86        | F7119-08      | 5.7 - 6.8           | 20                       | 0.4         | 1.25                     | -54 to +85               | 250     | 25                        | 25 x 29 x 17 | 50 |
| 87        | F7119-09      | 5.8 - 6.5           | 20                       | 0.4         | 1.25                     | -54 to +85               | 250     | 25                        | 19 x 24 x 17 | 34 |
| 88        | F7119-10      | 5.8 - 8.6           | 20                       | 0.4         | 1.25                     | -54 to +85               | 250     | 25                        | 19 x 24 x 17 | 34 |
| 89        | F7119-11      | 6.0 - 8.0           | 20                       | 0.4         | 1.25                     | -54 to +85               | 250     | 25                        | 19 x 24 x 17 | 34 |
| 90        | F7119-12      | 6.0 - 9.0           | 20                       | 0.4         | 1.25                     | -54 to +85               | 250     | 25                        | 19 x 24 x 17 | 34 |
| 91        | F7119-18      | 6.4 - 7.2           | 20                       | 0.4         | 1.25                     | -54 to +85               | 250     | 25                        | 19 x 24 x 17 | 34 |
| 92        | F7119-13      | 6.55 - 7.85         | 20                       | 0.4         | 1.25                     | -54 to +85               | 250     | 25                        | 19 x 24 x 17 | 34 |
| 93        | F7119-14      | 7.0 - 8.5           | 20                       | 0.4         | 1.25                     | -54 to +85               | 250     | 25                        | 19 x 24 x 17 | 34 |
| 94        | F7120-05      | 7.0 - 9.0           | 20                       | 0.4         | 1.25                     | -54 to +85               | 250     | 25                        | 19 x 24 x 17 | 34 |
| 95        | F7120-06      | 7.0 - 11.0          | 20                       | 0.4         | 1.25                     | -54 to +85               | 250     | 25                        | 19 x 24 x 17 | 34 |
| 96        | F7119-15      | 7.1 - 7.8           | 20                       | 0.4         | 1.25                     | -54 to +85               | 250     | 25                        | 19 x 24 x 17 | 34 |
| 97        | F7119-16      | 7.1 - 8.5           | 20                       | 0.4         | 1.25                     | -54 to +85               | 250     | 25                        | 19 x 24 x 17 | 34 |
| 98        | F7119-19      | 7.25 - 7.75         | 20                       | 0.4         | 1.25                     | -54 to +85               | 250     | 25                        | 19 x 24 x 17 | 34 |
| 99        | F7120-07      | 7.5 - 9.0           | 20                       | 0.4         | 1.25                     | -54 to +85               | 250     | 25                        | 19 x 24 x 17 | 34 |
| 100       | F7120-23      | 7.9 - 8.4           | 20                       | 0.4         | 1.25                     | -54 to +85               | 250     | 25                        | 19 x 24 x 17 | 34 |

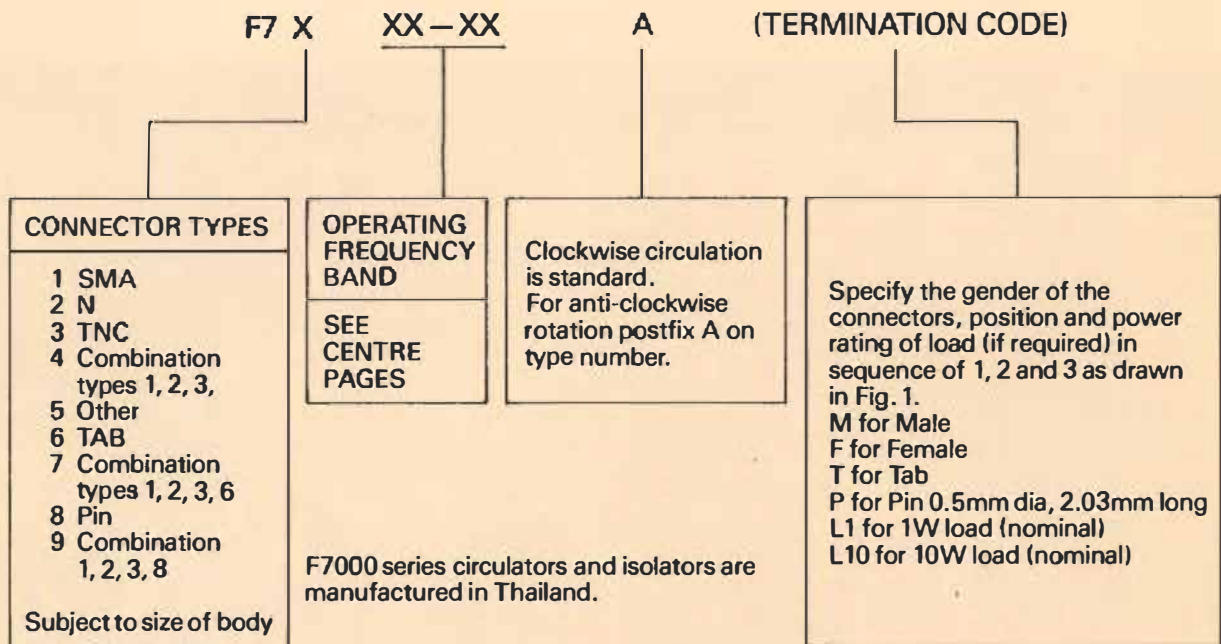


# CIRCULATORS

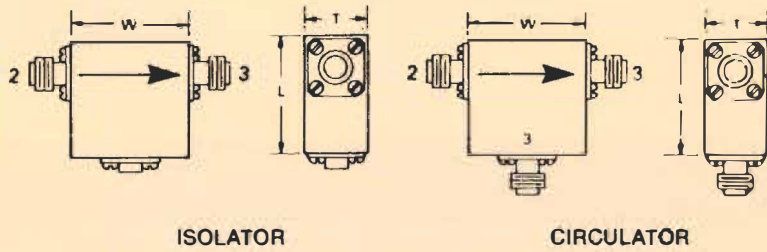


| MODEL NO. | FREQUENCY GHz | ISOLATION dB (Min.) | INSERTION LOSS dB (Max.) | VSWR (Max.) | OPERATING TEMPERATURE °C | CIRCULATOR POWER (Watts) |         | DIMENSION (W x L x T) mm. | WEIGHT Grams |    |
|-----------|---------------|---------------------|--------------------------|-------------|--------------------------|--------------------------|---------|---------------------------|--------------|----|
|           |               |                     |                          |             |                          | Peak                     | Average |                           |              |    |
| 101       | F7120-08      | 8.0 - 11.0          | 20                       | 0.5         | 1.25                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 102       | F7120-09      | 8.0 - 12.0          | 20                       | 0.5         | 1.25                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 103       | F7120-10      | 8.0 - 12.4          | 20                       | 0.5         | 1.25                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 104       | F7120-11      | 8.0 - 16.0          | 17                       | 0.7         | 1.35                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 105       | F7121-05      | 8.0 - 18.0          | 15                       | 0.9         | 1.50                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 106       | F7120-12      | 8.4 - 9.7           | 23                       | 0.5         | 1.15                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 107       | F7120-13      | 8.4 - 10.0          | 23                       | 0.5         | 1.15                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 108       | F7120-14      | 9.0 - 10.0          | 23                       | 0.5         | 1.15                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 109       | F7120-15      | 9.0 - 12.0          | 20                       | 0.5         | 1.25                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 110       | F7121-06      | 9.0 - 17.0          | 18                       | 0.7         | 1.30                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 111       | F7121-07      | 9.0 - 18.0          | 17                       | 0.8         | 1.35                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 112       | F7120-24      | 9.5 - 10.5          | 23                       | 0.4         | 1.15                     | -54 to +85               | 250     | 25                        | 13 x 16 x 13 | 19 |
| 113       | F7120-16      | 9.5 - 12.4          | 23                       | 0.5         | 1.20                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 114       | F7120-17      | 9.6 - 10.2          | 23                       | 0.5         | 1.20                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 115       | F7120-25      | 9.6 - 10.2          | 23                       | 0.4         | 1.15                     | -54 to +85               | 250     | 25                        | 13 x 16 x 13 | 19 |
| 116       | F7120-18      | 9.7 - 12.0          | 20                       | 0.5         | 1.25                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 117       | F7120-19      | 10.0 - 12.0         | 23                       | 0.5         | 1.20                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 118       | F7121-08      | 10.0 - 18.0         | 18                       | 0.7         | 1.30                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 119       | F7120-20      | 10.2 - 12.4         | 23                       | 0.5         | 1.20                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 120       | F7120-26      | 10.5 - 11.5         | 23                       | 0.4         | 1.15                     | -54 to +85               | 250     | 25                        | 13 x 16 x 13 | 19 |
| 121       | F7120-21      | 10.7 - 11.7         | 23                       | 0.5         | 1.20                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 122       | F7120-27      | 10.7 - 11.7         | 23                       | 0.4         | 1.15                     | -54 to +85               | 250     | 25                        | 13 x 16 x 13 | 19 |
| 123       | F7121-09      | 11.0 - 14.0         | 20                       | 0.5         | 1.25                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 124       | F7121-10      | 11.0 - 18.0         | 18                       | 0.7         | 1.30                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 125       | F7120-22      | 11.7 - 12.7         | 23                       | 0.5         | 1.20                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 126       | F7120-28      | 11.7 - 12.7         | 23                       | 0.4         | 1.15                     | -54 to +85               | 250     | 25                        | 13 x 16 x 13 | 19 |
| 127       | F7121-11      | 12.0 - 14.0         | 20                       | 0.5         | 1.25                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 128       | F7121-12      | 12.2 - 13.2         | 23                       | 0.5         | 1.20                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 129       | F7121-27      | 12.2 - 13.2         | 23                       | 0.4         | 1.15                     | -54 to +85               | 250     | 25                        | 13 x 16 x 13 | 19 |
| 130       | F7121-13      | 12.4 - 15.0         | 20                       | 0.5         | 1.25                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 131       | F7121-14      | 12.4 - 18.0         | 18                       | 0.6         | 1.35                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 132       | F7121-15      | 12.5 - 13.5         | 23                       | 0.5         | 1.20                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 133       | F7121-28      | 12.5 - 13.5         | 23                       | 0.4         | 1.15                     | -54 to +85               | 250     | 25                        | 13 x 16 x 13 | 19 |
| 134       | F7121-16      | 12.6 - 13.2         | 23                       | 0.5         | 1.20                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 135       | F7121-29      | 12.6 - 13.2         | 25                       | 0.4         | 1.15                     | -54 to +85               | 250     | 25                        | 13 x 16 x 13 | 19 |
| 136       | F7121-17      | 12.7 - 13.3         | 23                       | 0.5         | 1.20                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 137       | F7121-30      | 12.7 - 13.3         | 25                       | 0.4         | 1.15                     | -54 to +85               | 250     | 25                        | 13 x 16 x 13 | 19 |
| 138       | F7121-18      | 13.0 - 16.0         | 20                       | 0.5         | 1.25                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 139       | F7121-19      | 14.0 - 16.0         | 20                       | 0.5         | 1.25                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 140       | F7121-31      | 14.0 - 14.5         | 25                       | 0.4         | 1.10                     | -54 to +85               | 250     | 25                        | 13 x 16 x 13 | 19 |
| 141       | F7121-20      | 14.0 - 16.5         | 20                       | 0.5         | 1.25                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 142       | F7121-21      | 14.1 - 15.3         | 23                       | 0.5         | 1.20                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 143       | F7121-32      | 14.1 - 15.3         | 23                       | 0.4         | 1.15                     | -54 to +85               | 250     | 25                        | 13 x 16 x 13 | 19 |
| 144       | F7121-33      | 14.25 - 16.25       | 20                       | 0.5         | 1.25                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 145       | F7121-22      | 14.4 - 15.5         | 23                       | 0.5         | 1.20                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 146       | F7121-34      | 14.4 - 15.5         | 25                       | 0.4         | 1.15                     | -54 to +85               | 250     | 25                        | 13 x 16 x 13 | 19 |
| 147       | F7121-23      | 15.0 - 18.0         | 20                       | 0.6         | 1.25                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 148       | F7121-24      | 15.5 - 16.6         | 23                       | 0.5         | 1.20                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 149       | F7121-25      | 16.0 - 18.0         | 20                       | 0.6         | 1.25                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |
| 150       | F7121-26      | 17.3 - 18.1         | 20                       | 0.6         | 1.25                     | -54 to +85               | 250     | 25                        | 16 x 21 x 17 | 26 |

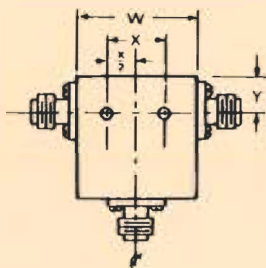
# TYPE NUMBER DESCRIPTION



# MECHANICAL OUTLINES



**Fig. 1 STANDARD 3-PORT CONFIGURATION**

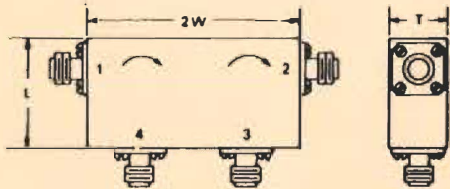


**Fig. 2**

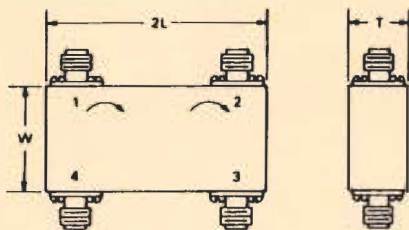
## MOUNTING HOLES

| W<br>mm | X<br>mm | Y<br>mm | Internal<br>Threads |
|---------|---------|---------|---------------------|
| 70      | 50      | 10      | M3-0.5-6H           |
| 54      | 40      | 10      | M3-0.5-6H           |
| 41      | 25      | 6.5     | M3-0.5-6H           |
| 32      | 24      | 6.5     | M3-0.5-6H           |
| 25      | 19      | 6.5     | M2-0.4-6H           |
| 19      | 11      | 6.5     | M2-0.4-6H           |
| 16      | 10      | 6.6     | M2-0.4-6H           |

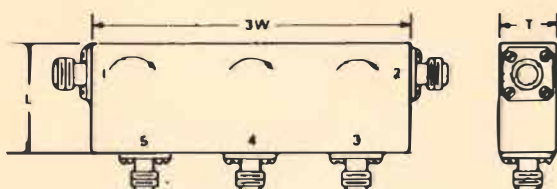
All thread depths are 4mm



**Fig. 3 4-PORT 'T' CONFIGURATION**



**Fig. 4 4-PORT 'H' CONFIGURATION**



**Fig. 5 5-PORT CONFIGURATION**

If you do not see a device that fits your requirements let us quote you against your procurement drawing.