

DIRECTIONAL COUPLER

Product Code System

Customer Inquiry Form

Products Reference Table

Coupler (SMA Single)

Coupler (SMA Dual)

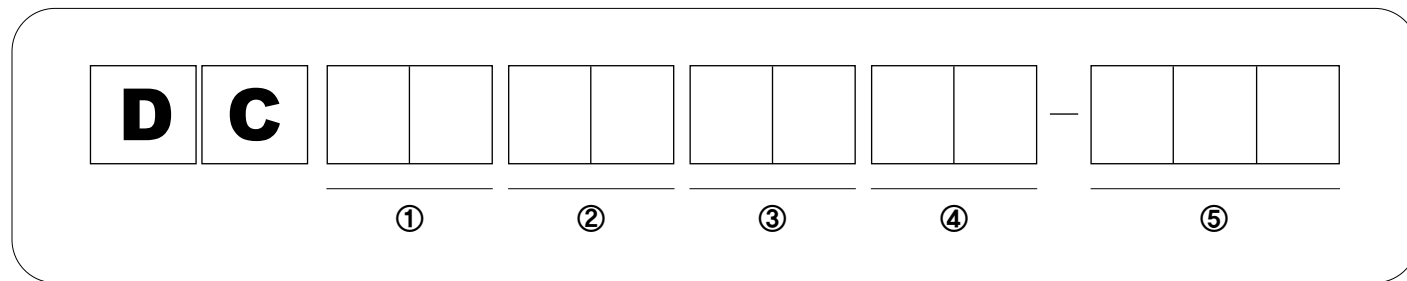
Coupler (N Single)

Coupler (N Dual)

Arrestor + Coupler (N Single)

Arrestor + Coupler (N Dual)

Product Code System



1. Input Connector Type

CODE	Input Connector Type
16	SMA50
17	SMA75
28	BNC50
29	BNC75
30	TNC50
31	TNC75
34	N50
35	N75
37	7/16 DIN
XX	Others

2. Operating Frequency

CODE	Operating Frequency (MHz)
A1	DC ~ 500
B1	500 ~ 700
C1	700 ~ 1000
D1	1000 ~ 1700
E1	1700 ~ 1900
F1	1900 ~ 2200
G1	2200 ~ 2400
H1	2400 ~ 3000
I1	3000 ~ 6000
J1	6000 ~ 15000
K1	15000 ~ 30000
L1	30000 ~

Wideband Frequency Range will be defined using the first character of the start and the stop frequency bands.
Ex) EF = 1700 ~ 2200 (MHz)

3. Coupling Value

CODE	Coupling Value (dB)
01	1
.	.
10	10
.	.
A0	100
.	.
B0	110
.	.
AA	10 / 10
AB	10 / 20
AC	10 / 30
AD	10 / 40
AE	10 / 50
BB	20 / 20
BC	20 / 30
BD	20 / 40
BE	20 / 50
CC	30 / 30
CD	30 / 40
CE	30 / 50
DD	40 / 40
DE	40 / 50
.	.

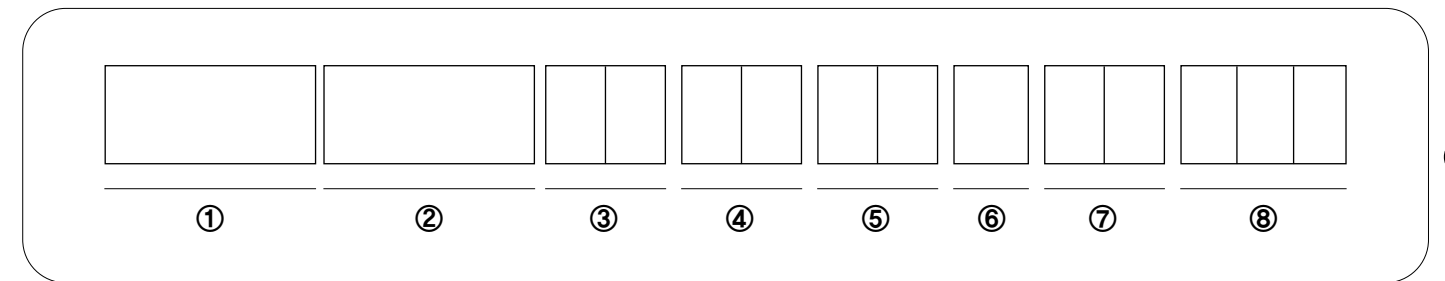
4. Shape

CODE	Shape
DU	Dual
SI	Single
HY	Hybrid
OT	Others

5. Serial Number

CODE	Serial Number
nnn	Any combination of Option Codes will be replaced by 3 digits Serial Number according to the development sequence for each model.

Product Code System



1. Start Frequency

CODE	Start Frequency
.	.
10M	10MHz
.	.
824M	824MHz
.	.
2200M	2200MHz
.	.

2. Stop Frequency

CODE	Stop Frequency
.	.
10M	10MHz
.	.
824M	824MHz
.	.
2200M	2200MHz
.	.

3. Output Connector Type

CODE	Output Connector Type
16	SMA50
17	SMA75
28	BNC50
29	BNC75
30	TNC50
31	TNC75
34	N50
35	N75
37	7/16 DIN
XX	Others

4. I/O Port Type

CODE	I/O Port Type
FF	Female - Female
MM	Male - Male
FM	Female - Male
MF	Male - Female

5. Coupling Connector Type

CODE	Coupling Connector Type
16	SMA50
17	SMA75
28	BNC50
29	BNC75
30	TNC50
31	TNC75
34	N50
35	N75
37	7/16 DIN
XX	Others

6. Coupling Port Type

CODE	Coupling Port Type
F	Female
M	Male

7. Type

CODE	Type
AL	Coaxial (Air-Line)
MS	Micro-Stripline
ST	Stripline
WG	Waveguide
LC	LC
AC	Arrestor+Coupler

8. Input Power

CODE	Input Power (watt)
000	1 (min)
001	1
002	2
003	3
.	.
010	10
.	.
100	100
.	.
200	200
.	.



Customer Inquiry Form

1. Customer Information

Author Name	
Company	
Phone	
Fax	
E-mail	

2. Electrical Specifications

Frequency Range	
Coupling Value	
Insertion Loss (max)	
V.S.W.R (max)	
Directivity (min)	
Input Power (max)	
Port Connectors (IN/OUT)	
Port Connectors (CPL)	
Surface Painting/Plating	

3. Other Information

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Products Reference Table

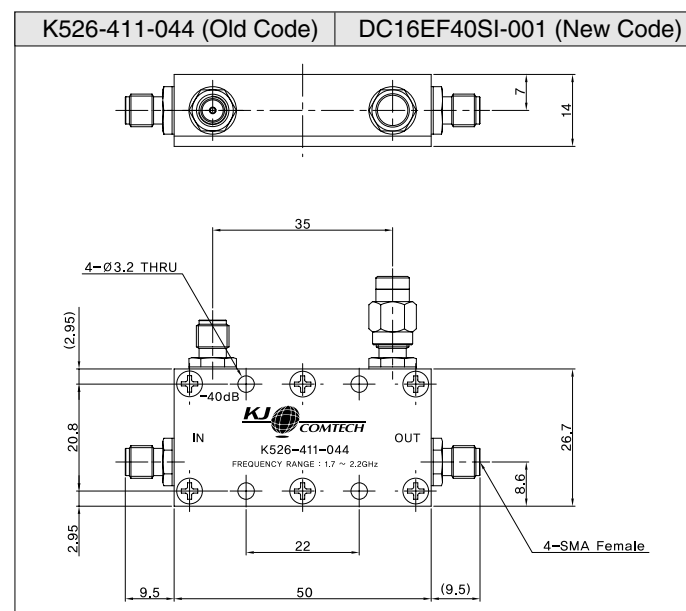
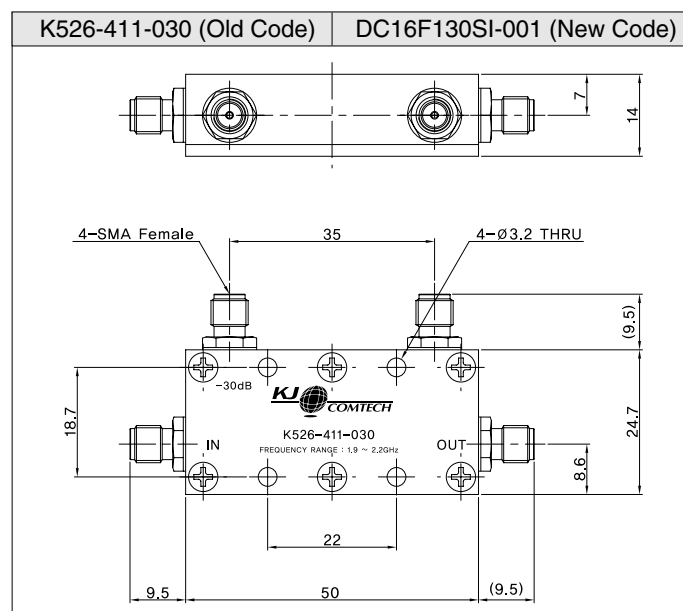
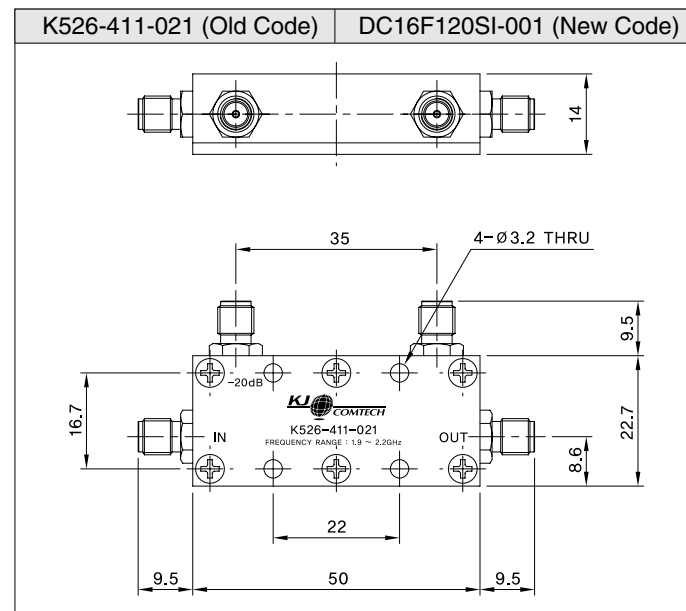
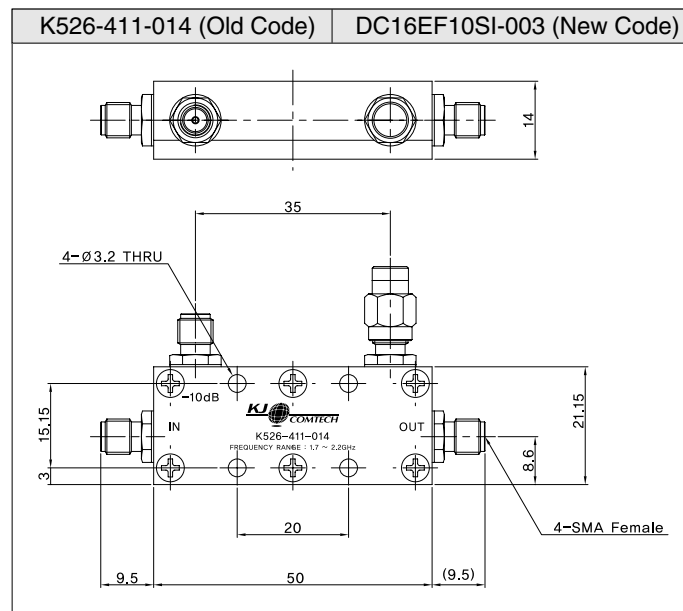
Product Code (Old)	Product Code (New)	Frequency Range (MHz)	Shape	Coupling	Connector Type
K526-411-014	DC16EF10SI-003	1700 ~ 2200	Single	10	SMA
K526-411-021	DC16F120SI-001	1900 ~ 2200	Single	20	SMA
K526-411-030	DC16F130SI-001	1900 ~ 2200	Single	30	SMA
K526-411-044	DC16EF40SI-001	1700 ~ 2200	Single	40	SMA
K526-412-011	DC16EFAADU-001	1700 ~ 2200	Dual	10	SMA
K526-412-020	DC16F1BBDU-001	1900 ~ 2200	Dual	20	SMA
K526-412-031	DC16F1CCDU-001	1900 ~ 2200	Dual	30	SMA
K526-412-041	DC16EFDDDU-001	1700 ~ 2200	Dual	40	SMA
K526-421-011	DC34F110SI-002	1900 ~ 2200	Single	10	N
K526-421-022	DC34F120SI-002	1900 ~ 2200	Single	20	N
K526-421-032	DC34F130SI-002	1900 ~ 2200	Single	30	N
K526-421-041	DC34F140SI-001	1900 ~ 2200	Single	40	N
K526-422-010	DC34F1ABDU-001	1940 ~ 2160	Dual	10 / 20	N
K526-422-025	DC34G1BDDU-002	2300 ~ 2400	Dual	20 / 40	N
K526-422-032	DC34F1CCDU-001	1900 ~ 2200	Dual	30	N
K526-422-040	DC34F1DDDU-001	1900 ~ 2200	Dual	40	N
K526-421-043	DC34E130SI-002	1700 ~ 1900	Single	29.5	N
K526-421-130	DC34I130SI-001	5700 ~ 5800	Single	29.75	N
K526-421-135	DC34H130SI-001	2630 ~ 2655	Single	30	N
K526-421-046	DC34G140SI-001	2300 ~ 2400	Single	40	N
K526-422-035	DC34E1CCDU-002	1700 ~ 1900	Dual	29.5	N
K526-422-039	DC34EFCCDU-001	1700 ~ 2200	Dual	30	N
K526-422-131	DC34G1CCDU-001	2300 ~ 2400	Dual	30	N
K526-422-046	DC34G1DDDU-001	2300 ~ 2400	Dual	40	N

③

Directional Coupler

Coupler (SMA Single)

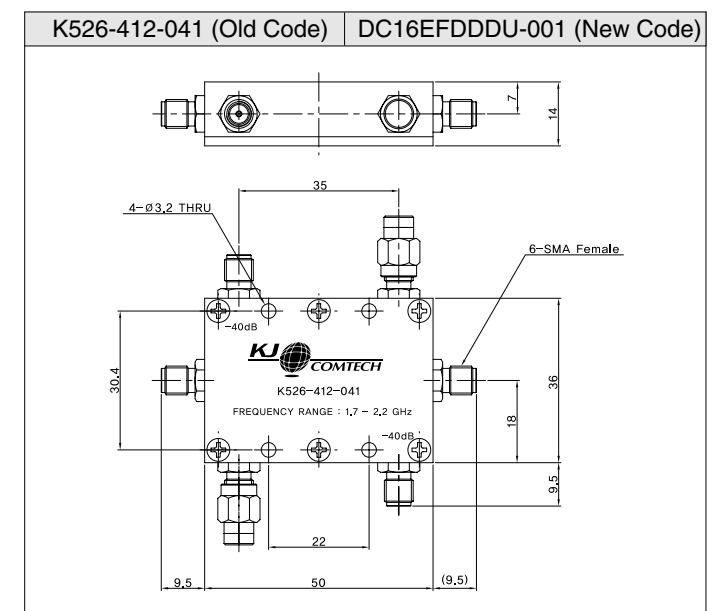
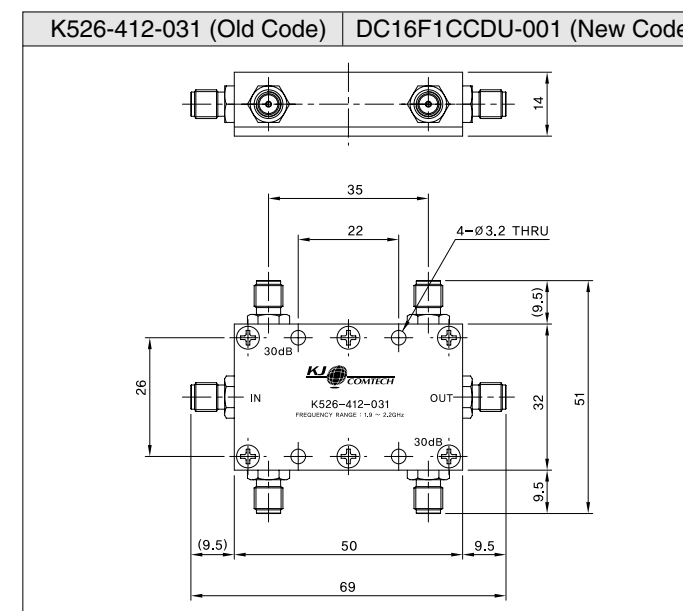
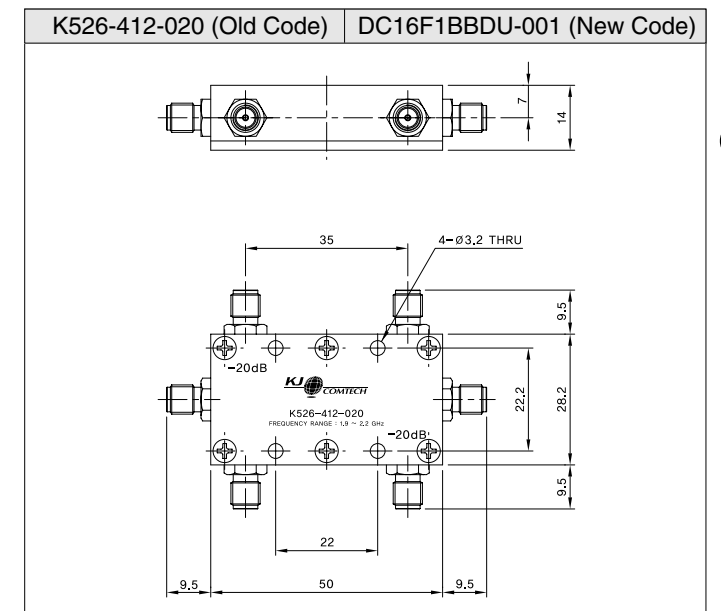
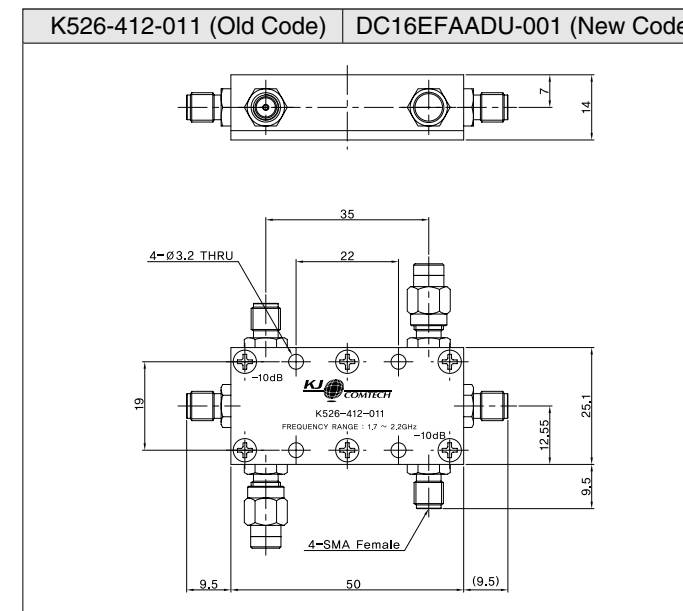
Unit : mm



Product Code (Old)	K526-411-014	K526-411-021	K526-411-030	K526-411-044
Product Code (New)	DC16EF10SI-003	DC16F120SI-001	DC16F130SI-001	DC16EF40SI-001
Frequency Range (MHz)	1700 ~ 2200	1900 ~ 2200	1900 ~ 2200	1700 ~ 2200
Coupling Value	10 ± 0.7 dB	20 ± 0.5 dB	30 ± 0.5 dB	40 ± 0.7 dB
Insertion Loss (max)	0.70 dB	0.20 dB	0.15 dB	0.50 dB
VSWR (max)	1.20 : 1	1.20 : 1	1.20 : 1	1.20 : 1
Directivity (min)	20 dB	20 dB	20 dB	20 dB
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
Input Power (max)	100 W	100 W	100 W	100 W
Temperature Range	-30°C ~ +60°C	-30°C ~ +60°C	-30°C ~ +60°C	-30°C ~ +60°C
Port Connector (IN/OUT)	SMA (F)	SMA (F)	SMA (F)	SMA (F)
Port Connector (CPL)	SMA (F)	SMA (F)	SMA (F)	SMA (F)

Coupler (SMA Dual)

Unit : mm

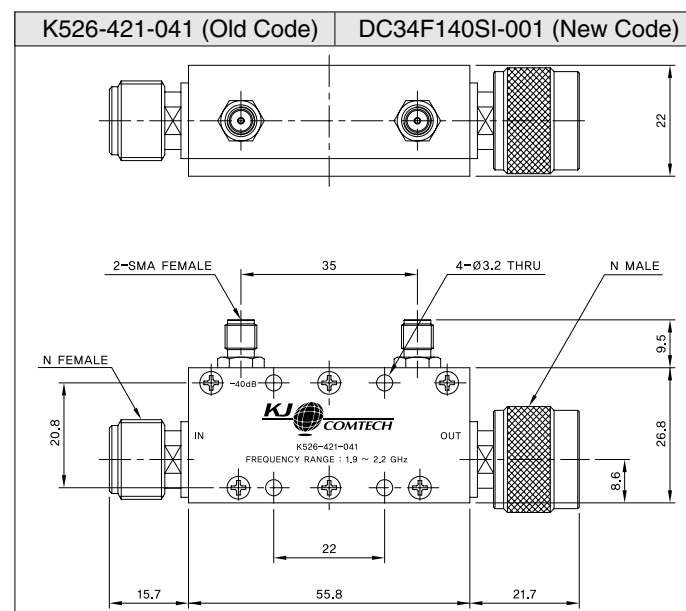
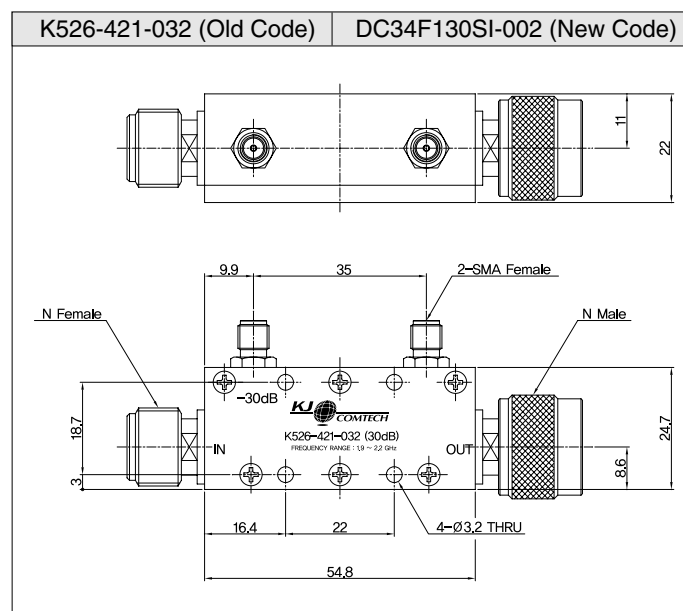
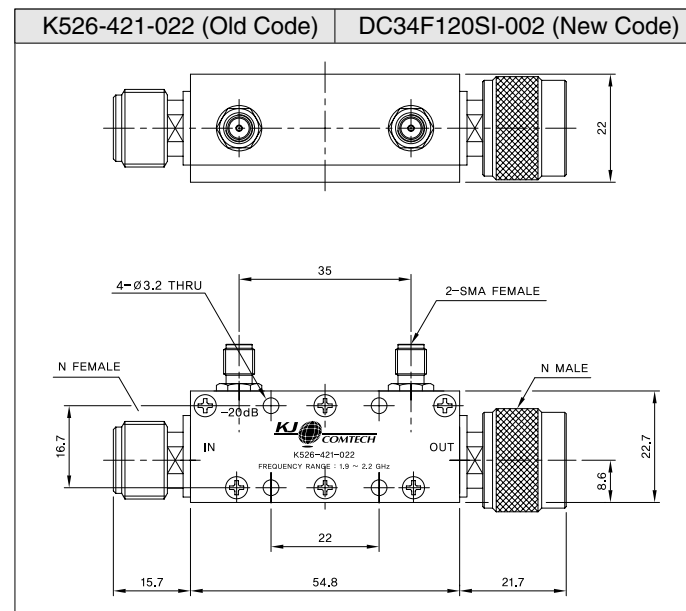
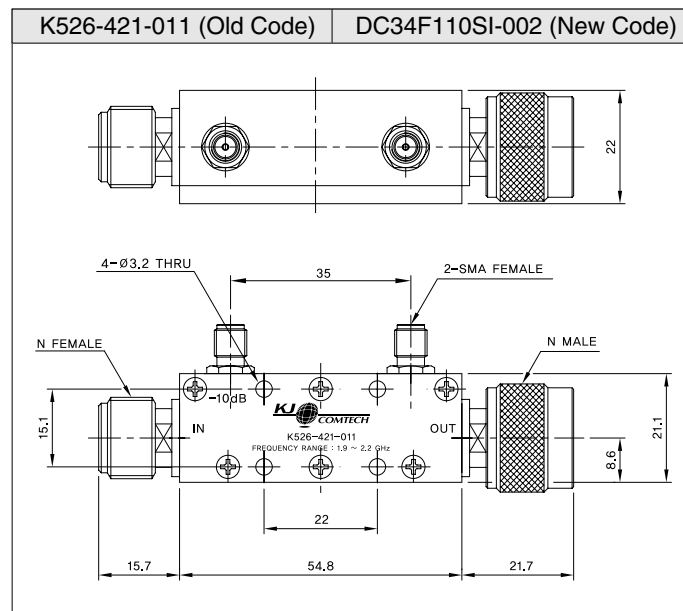


Product Code (Old)	K526-412-011	K526-412-020	K526-412-031	K526-412-041
Product Code (New)	DC16EFAADU-001	DC16F1BBDU-001	DC16F1CCDU-001	DC16EFDDDU-001
Frequency Range (MHz)	1700 ~ 2200	1900 ~ 2200	1900 ~ 2200	1700 ~ 2200
Coupling Value	10 ± 0.7 dB	20 ± 0.5 dB	30 ± 0.5 dB	40 ± 0.7 dB
Insertion Loss (max)	1.20 dB	0.40 dB	0.30 dB	0.50 dB
VSWR (max)	1.20 : 1	1.20 : 1	1.20 : 1	1.20 : 1
Directivity (min)	20 dB	20 dB	20 dB	20 dB
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
Input Power (max)	100 W	100 W	100 W	100 W
Temperature Range	-30°C ~ +60°C	-30°C ~ +60°C	-30°C ~ +60°C	-30°C ~ +60°C
Port Connector (IN/OUT)	SMA (F)	SMA (F)	SMA (F)	SMA (F)
Port Connector (CPL)	SMA (F)	SMA (F)	SMA (F)	SMA (F)

Directional Coupler

Coupler (N Single)

Unit : mm

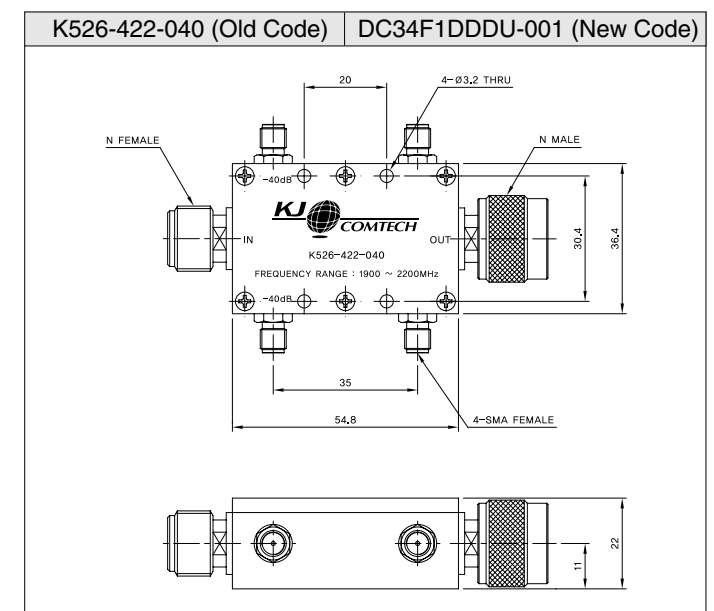
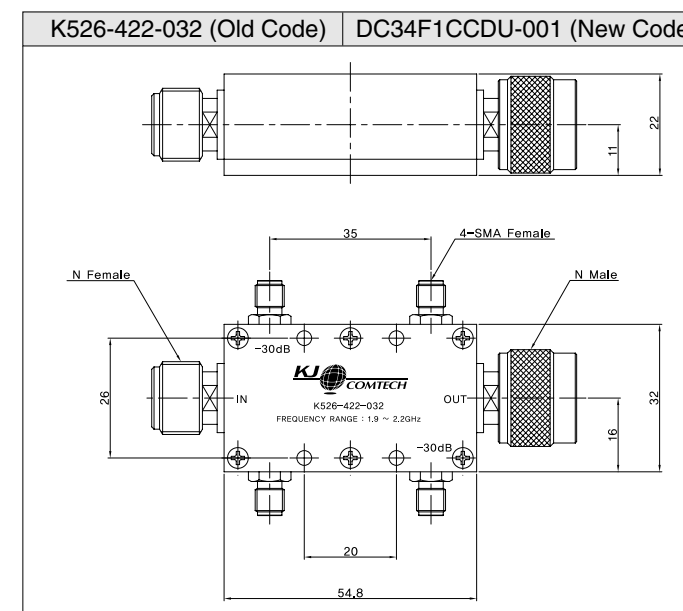
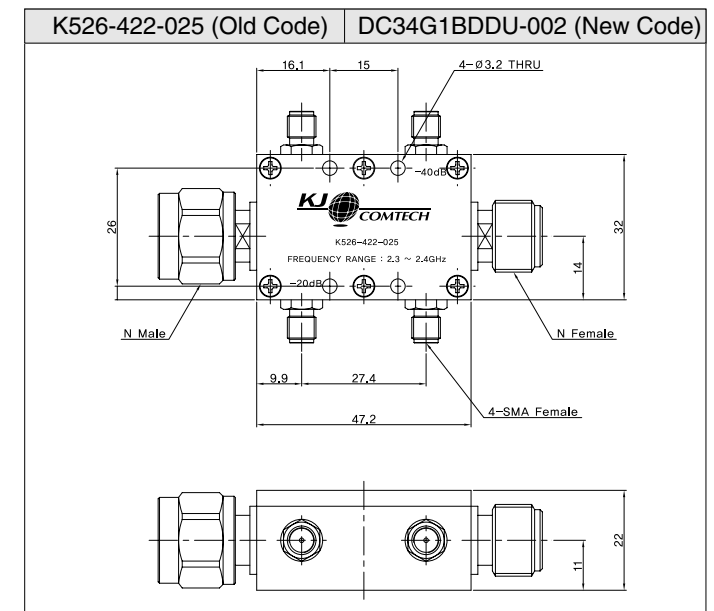
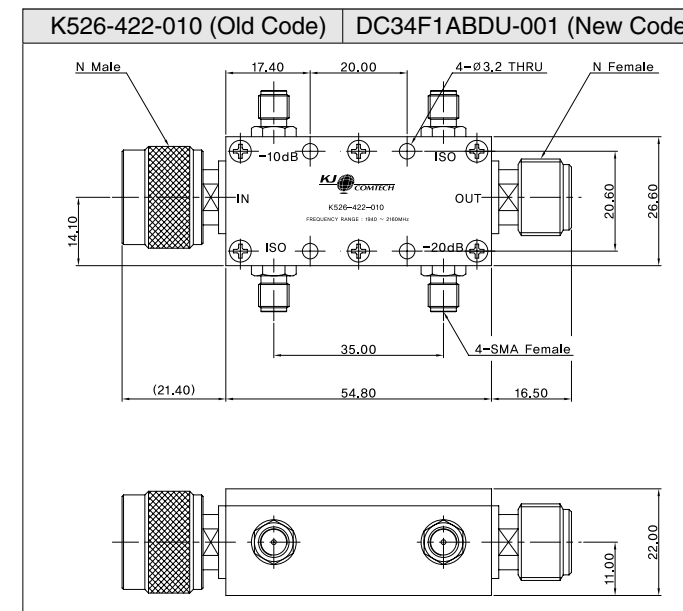


Product Code (Old)	K526-421-011	K526-421-022	K526-421-032	K526-421-041
Product Code (New)	DC34F110SI-002	DC34F120SI-002	DC34F130SI-002	DC34F140SI-001
Frequency Range (MHz)	1900 ~ 2200	1900 ~ 2200	1900 ~ 2200	1900 ~ 2200
Coupling Value	10 ± 0.5 dB	20 ± 0.5 dB	30 ± 0.5 dB	40 ± 0.5 dB
Insertion Loss (max)	0.60 dB	0.30 dB	0.20 dB	0.20 dB
VSWR (max)	1.20 : 1	1.20 : 1	1.20 : 1	1.20 : 1
Directivity (min)	20 dB	20 dB	20 dB	20 dB
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
Input Power (max)	200 W	200 W	200 W	200 W
Temperature Range	-30°C ~ +60°C	-30°C ~ +60°C	-30°C ~ +60°C	-30°C ~ +60°C
Port Connector (IN/OUT)	N (F)/N (M)	N (F)/N (M)	N (F)/N (M)	N (F)/N (M)
Port Connector (CPL)	SMA (F)	SMA (F)	SMA (F)	SMA (F)

Directional Coupler

Coupler (N Dual)

Unit : mm

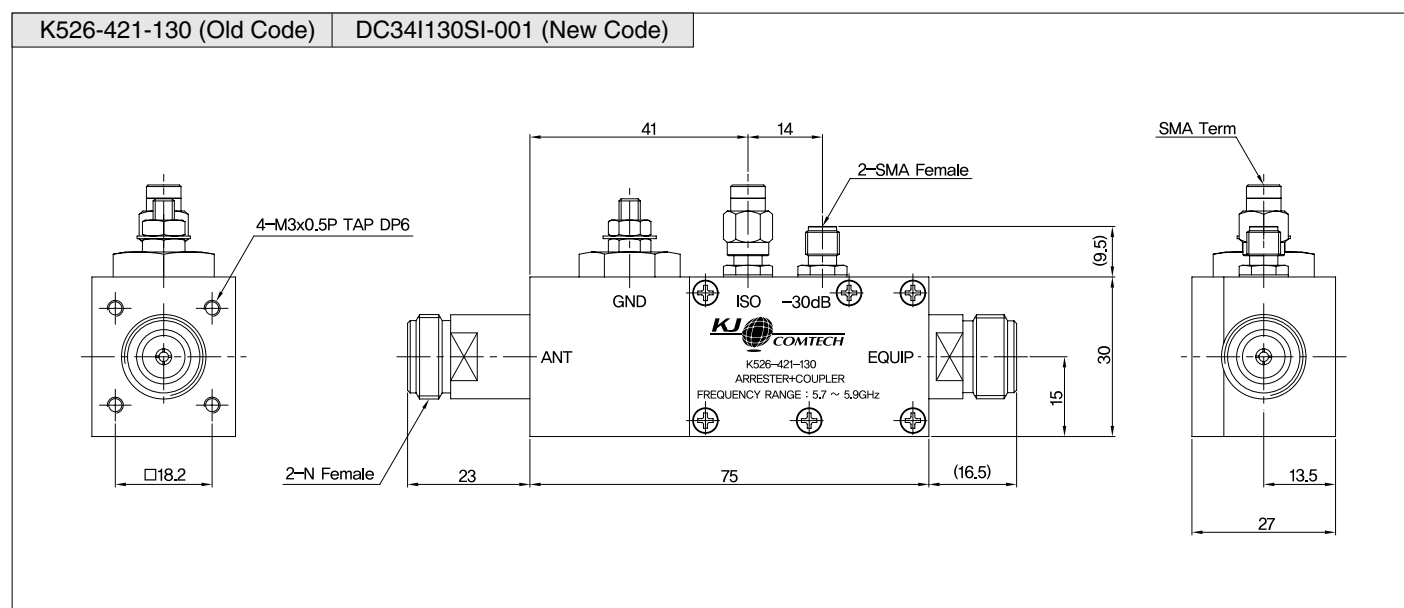
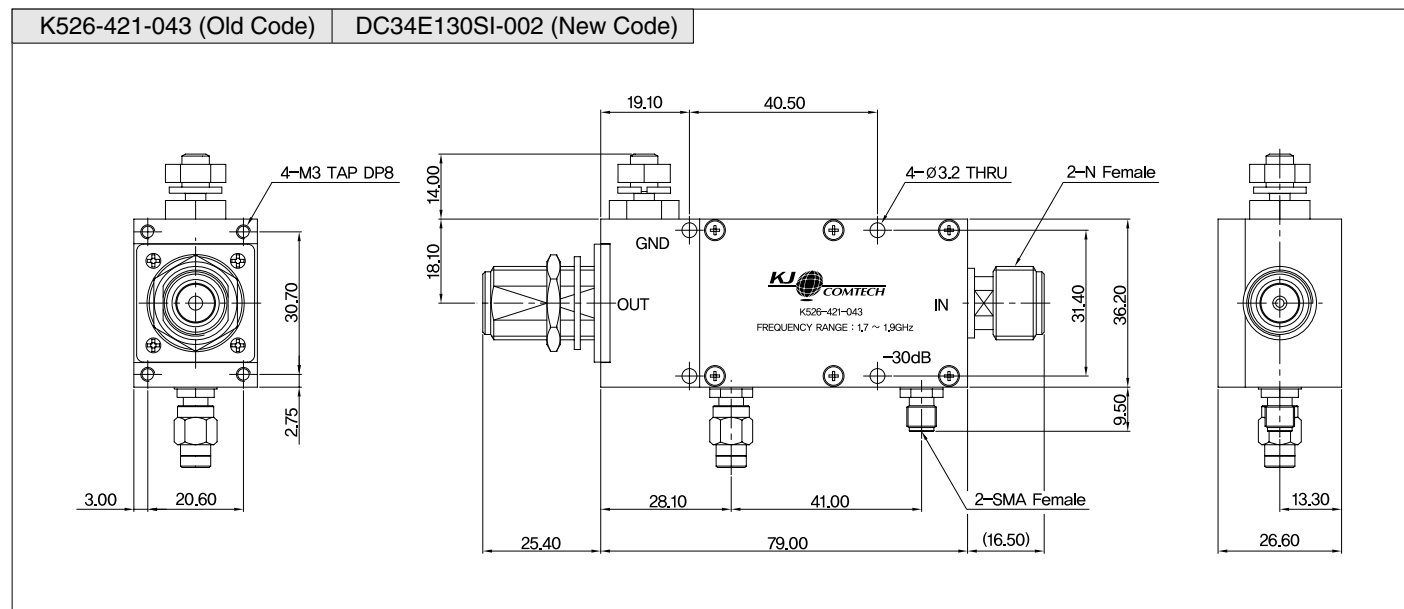


Product Code (Old)	K526-422-010	K526-422-025	K526-422-032	K526-422-040
Product Code (New)	DC34F1ABDU-001	DC34G1BDDU-002	DC34F1CCDU-001	DC34F1DDDU-001
Frequency Range (MHz)	1940 ~ 2160	2300 ~ 2400	1900 ~ 2200	1900 ~ 2200
Coupling Value	10±0.5dB / 20±0.5dB	20±0.5dB / 40±0.5dB	30 ± 0.5 dB	40 ± 0.5 dB
Insertion Loss (max)	0.80 dB	0.30 dB	0.30 dB	0.20 dB
VSWR (max)	1.22 : 1	1.20 : 1	1.20 : 1	1.20 : 1
Directivity (min)	20 dB	20 dB	20 dB	20 dB
Impedance	50 Ω	50 Ω	50 Ω	50 Ω
Input Power (max)	200 W	200 W	200 W	200 W
Temperature Range	-30°C ~ +60°C	-30°C ~ +60°C	-30°C ~ +60°C	-30°C ~ +60°C
Port Connector (IN/OUT)	N (M)/N (F)	N (M)/N (F)	N (F)/N (M)	N (F)/N (M)
Port Connector (CPL)	SMA (F)	SMA (F)	SMA (F)	SMA (F)

Directional Coupler

Arrestor + Coupler (N Single)

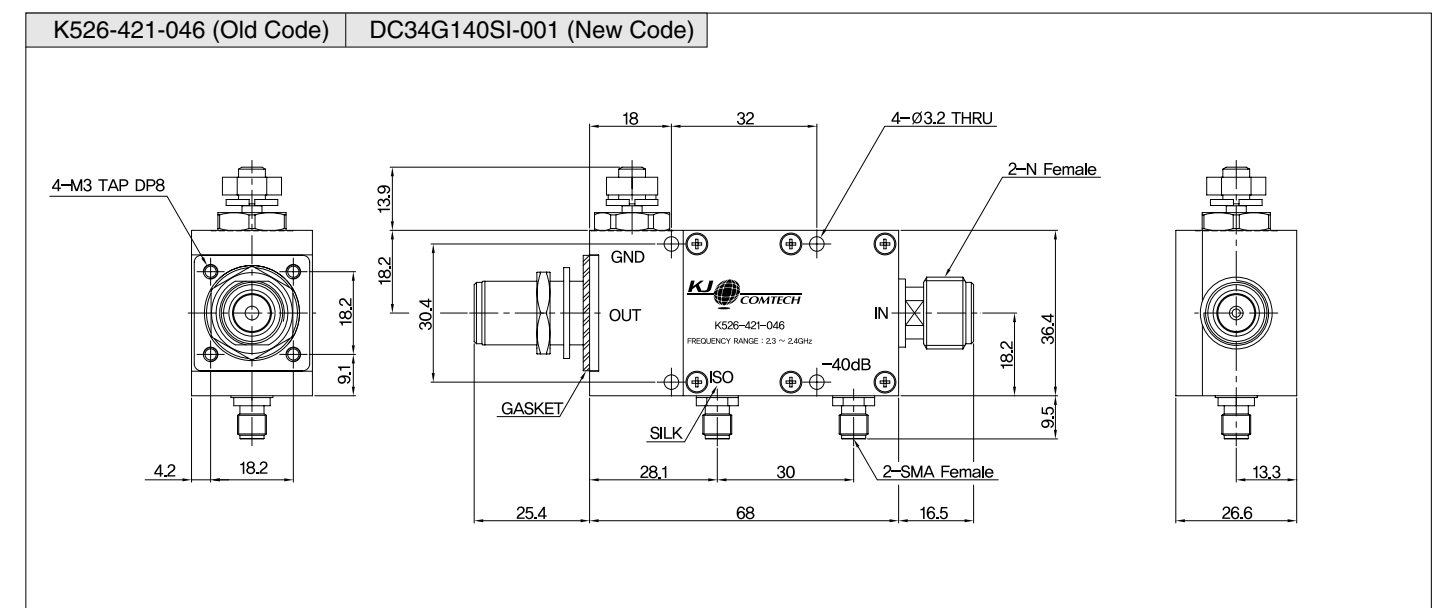
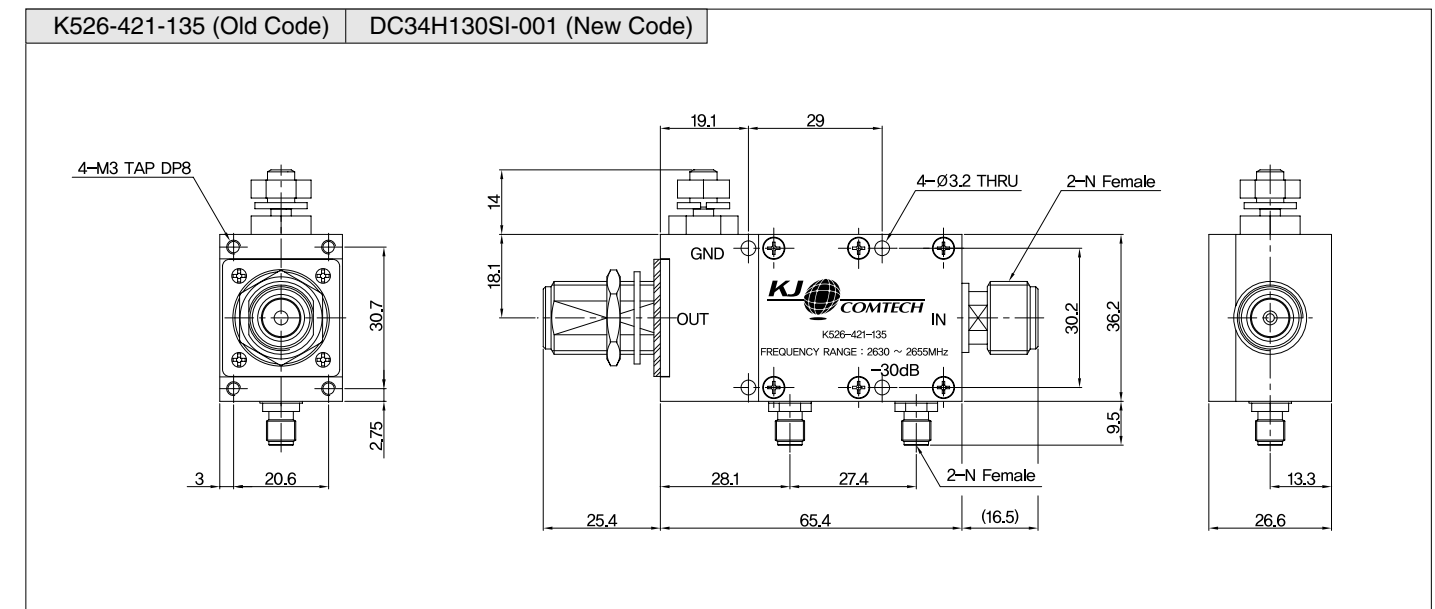
Unit : mm



Product Code (Old)	K526-421-043	K526-421-130
Product Code (New)	DC34E130SI-002	DC34I130SI-001
Frequency Range (MHz)	1700 ~ 1900	5700 ~ 5900
Coupling Value	29.5 ± 0.3 dB	29.75 ± 0.25 dB
Insertion Loss (max)	0.30 dB	0.30 dB
VSWR (max)	1.20 : 1	1.20 : 1
Directivity (min)	20 dB	20 dB
DC Spark Over Voltage	DC230 ± 20%	DC230 ± 20%
Impedance	50 Ω	50 Ω
Input Power (max)	5 W	200 W
Temperature Range	-30°C ~ +60°C	-30°C ~ +60°C
Port Connector (IN/OUT)	N (F)	N (F)
Port Connector (CPL)	SMA (F)	SMA (F)

Directional Coupler

Unit : mm



Product Code (Old)	K526-421-135	K526-421-046
Product Code (New)	DC34H130SI-001	DC34G140SI-001
Frequency Range (MHz)	2630 ~ 2655	2300 ~ 2400
Coupling Value	30 ± 1.0 dB	40 ± 1.0 dB
Insertion Loss (max)	0.20 dB	0.20 dB
VSWR (max)	1.22 : 1	1.20 : 1
Directivity (min)	20 dB	20 dB
DC Spark Over Voltage	DC230 ± 20%	DC230 ± 20%
Impedance	50 Ω	50 Ω
Input Power (max)	6 W	200 W
Temperature Range	-30°C ~ +60°C	-30°C ~ +60°C
Port Connector (IN/OUT)	N (F)	N (F)
Port Connector (CPL)	SMA (F)	SMA (F)

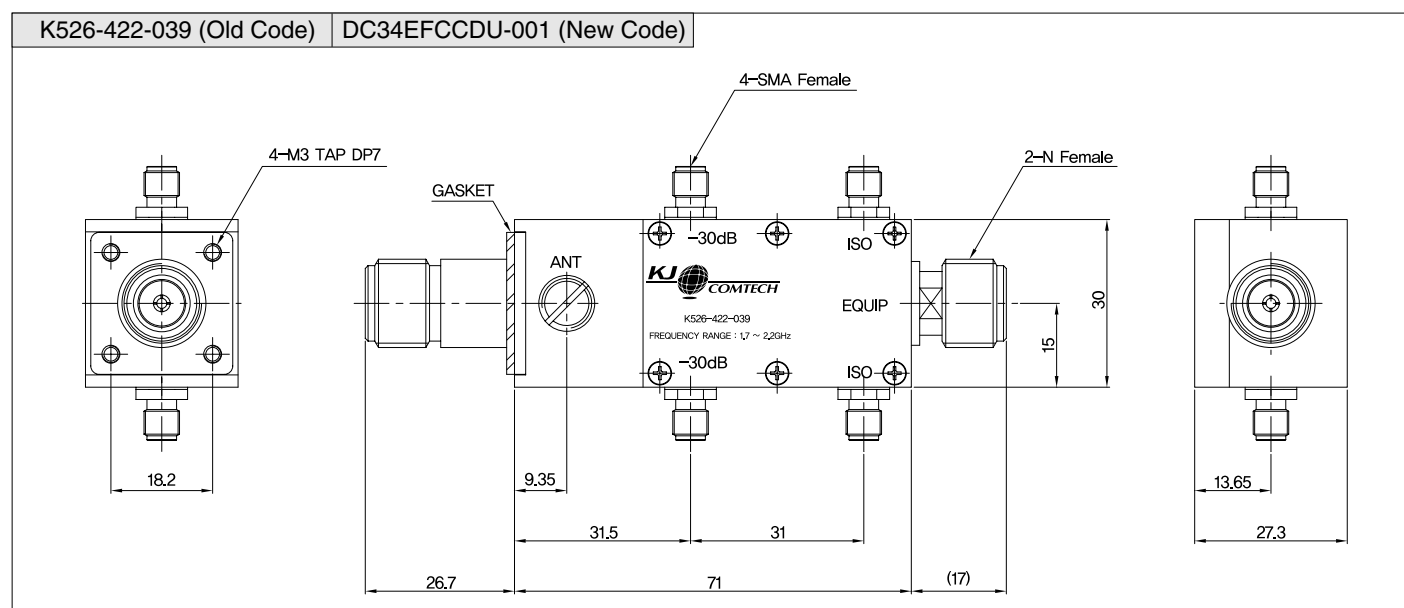
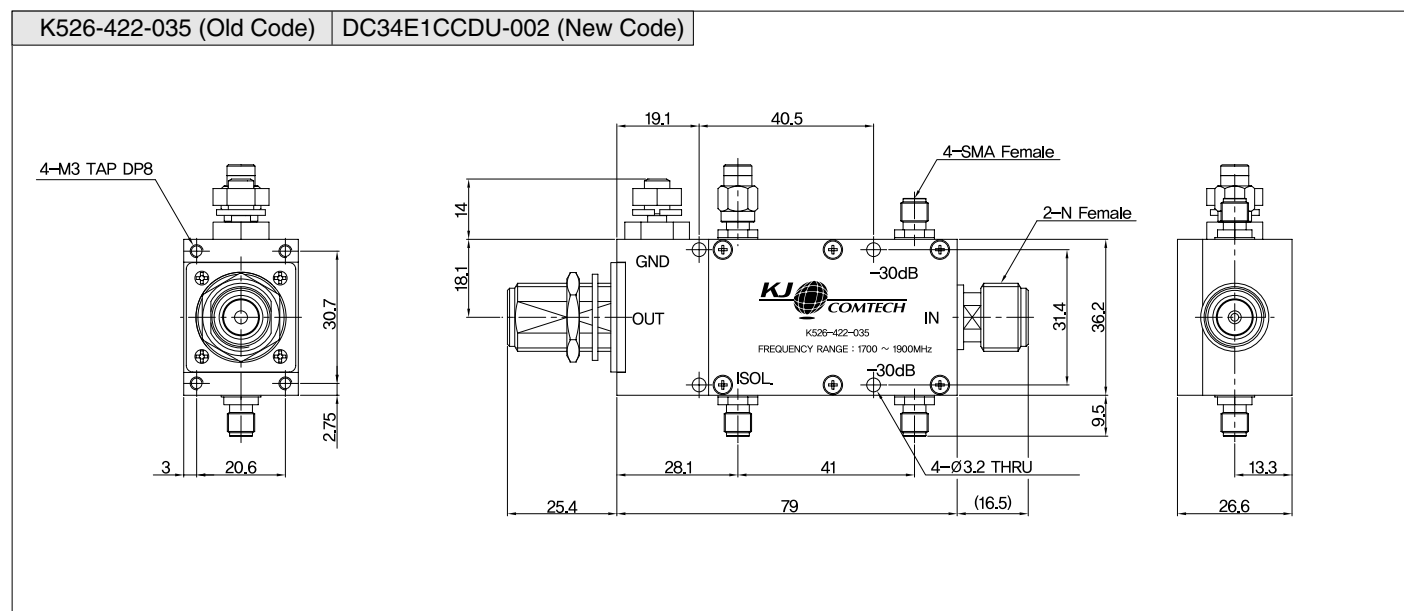
Directional Coupler ③



Directional Coupler

Arrestor + Coupler (N Dual)

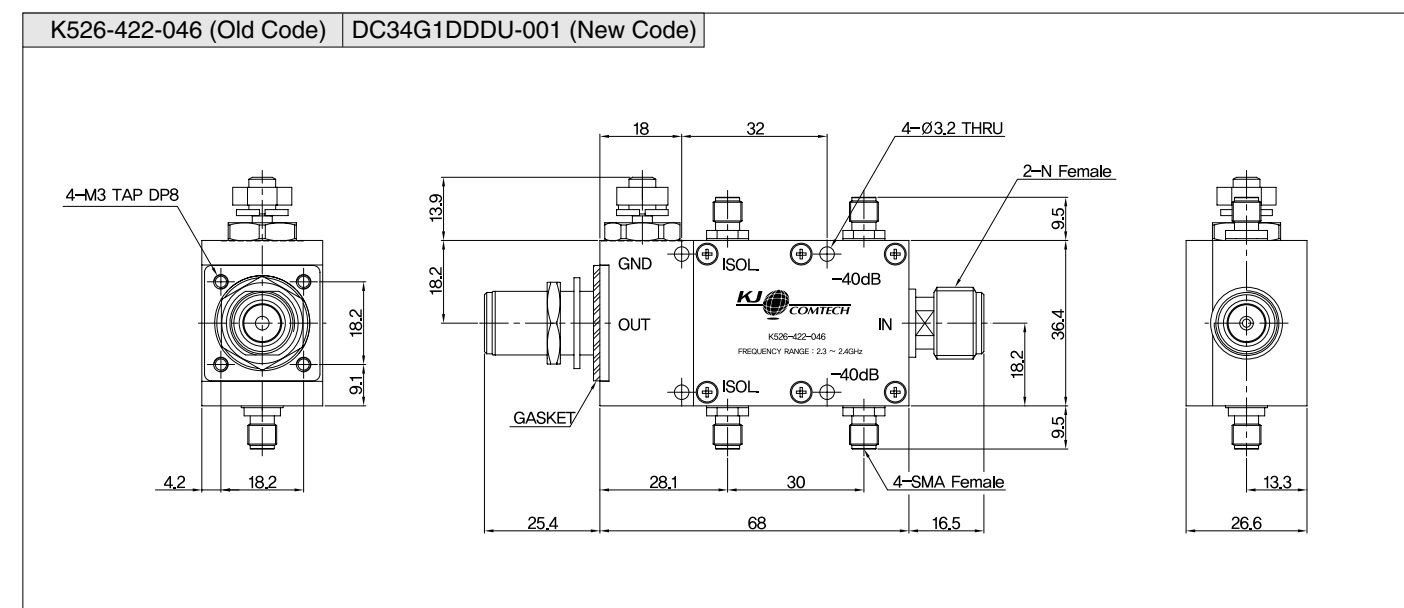
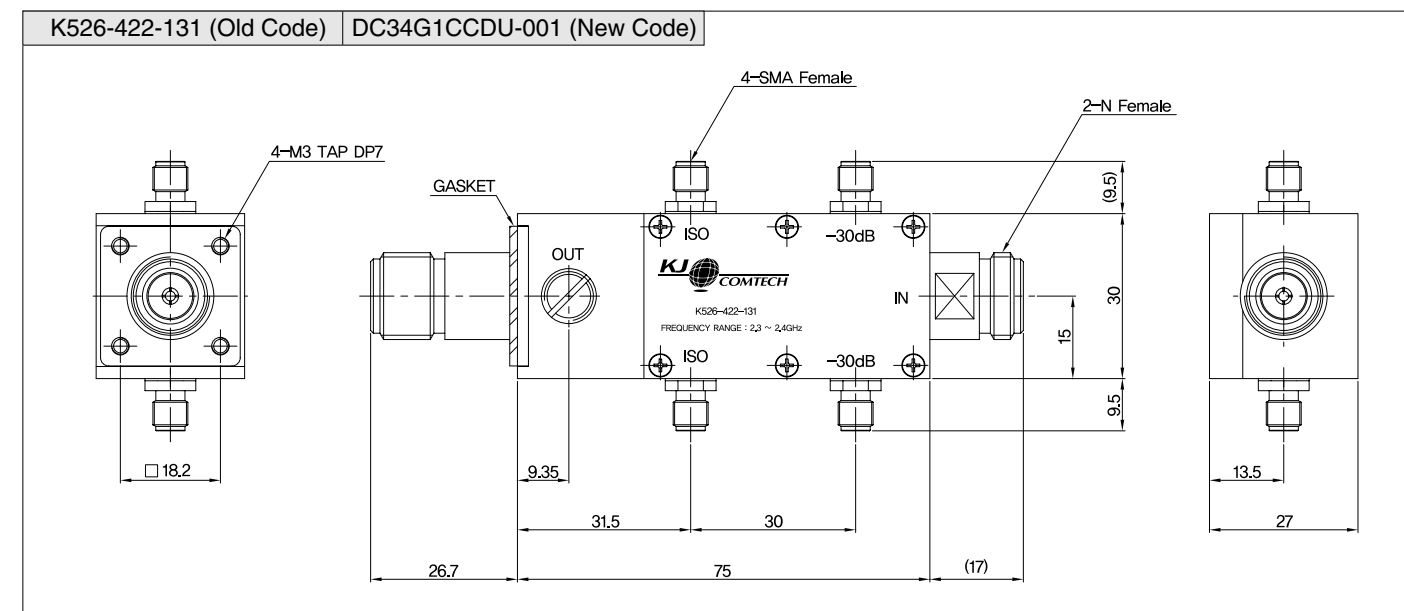
Unit : mm



Product Code (Old)	K526-422-035	K526-422-039
Product Code (New)	DC34E1CCDU-002	DC34EFCCDU-001
Frequency Range (MHz)	1700 ~ 1900	1700 ~ 2200
Coupling Value	29.5 ± 0.3 dB	30 ± 1.0 dB
Insertion Loss (max)	0.30 dB	0.20 dB
VSWR (max)	1.20 : 1	1.22 : 1
Directivity (min)	20 dB	20 dB
DC Spark Over Voltage	DC230 ± 20%	DC230 ± 20%
Impedance	50 Ω	50 Ω
Input Power (max)	5 W	200 W
Temperature Range	-30°C ~ +60°C	-30°C ~ +60°C
Port Connector (IN/OUT)	N (F)	N (F)
Port Connector (CPL)	SMA (F)	SMA (F)

Directional Coupler

Unit : mm



Product Code (Old)	K526-422-131	K526-422-046
Product Code (New)	DC34G1CCDU-001	DC34G1DDDU-001
Frequency Range (MHz)	2300 ~ 2400	2300 ~ 2400
Coupling Value	30 ± 1.0 dB	40 ± 1.0 dB
Insertion Loss (max)	0.20 dB	0.20 dB
VSWR (max)	1.22 : 1	1.20 : 1
Directivity (min)	25 dB	20 dB
DC Spark Over Voltage	DC230 ± 20%	DC230 ± 20%
Impedance	50 Ω	50 Ω
Input Power (max)	200 W	200 W
Temperature Range	-30°C ~ +60°C	-30°C ~ +60°C
Port Connector (IN/OUT)	N (F)	N (F)
Port Connector (CPL)	SMA (F)	SMA (F)