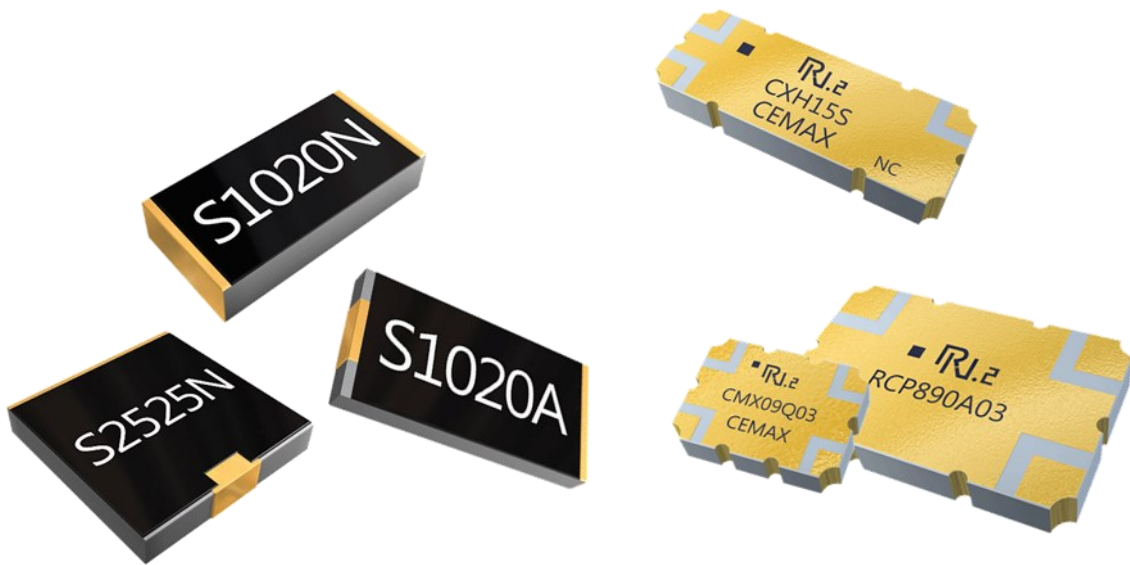
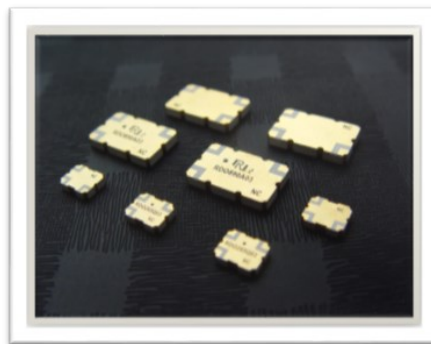




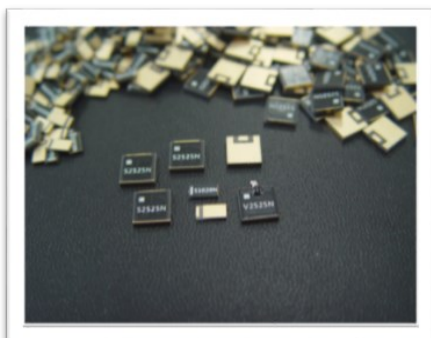
Product Lines



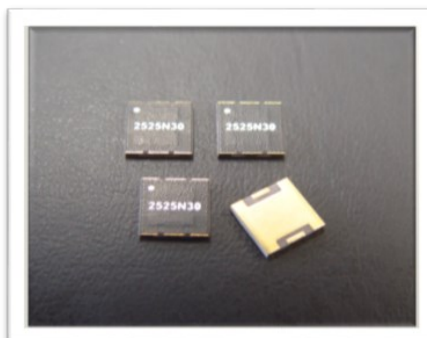
- ❖ 90 Deg Hybrid Couplers
- ❖ 90 Deg Asymmetric Couplers
- ❖ Directional Couplers
- ❖ Broadband Couplers



- ❖ Doherty Combiners



- ❖ Terminations



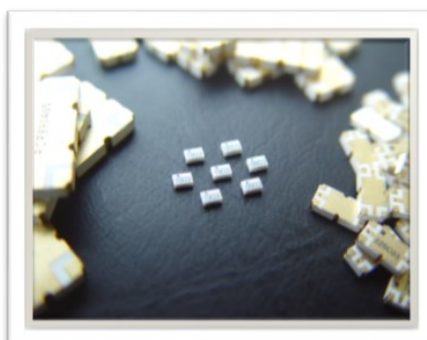
- ❖ Attenuators



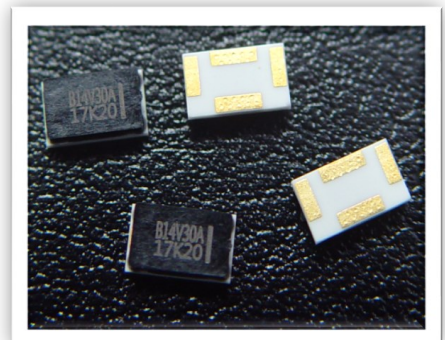
- ❖ Delay Lines



- ❖ Quadrifilars

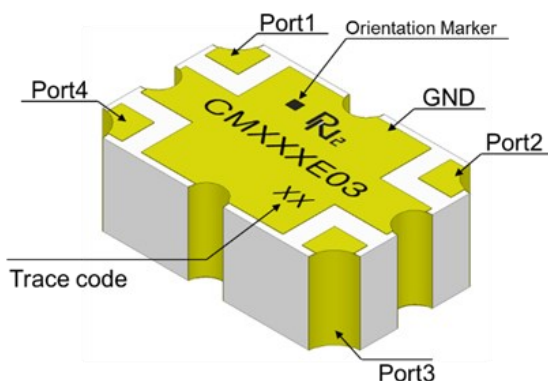


- ❖ Chip Power Dividers
& Combiners



- ❖ REP (SMD FUSE)

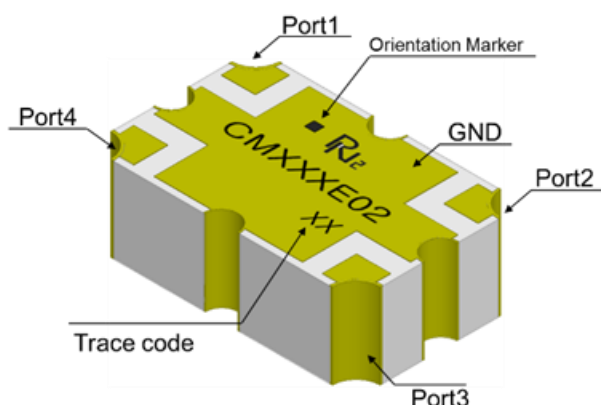
Part Number	Frequency (MHz)	Dimension (mm)	Power (W)	Amp. Bal. (dB)	Isolation (dB)	I.L. (dB)	VSWR (Max:1)	Phase Bal. (Degrees)
CMX03A03	250 ~ 470	14.22 x 8.94 x 2.00	200	± 0.50	20	0.25	1.20	90 ± 3.0
CMX06A03	470 ~ 860	14.22 x 8.89 x 2.00	300	± 0.15	23	0.17	1.15	90 ± 2.0
CMX07E03	600 ~ 1000	5.08 x 3.18 x 1.60	40	± 0.25	26	0.20	1.12	90 ± 4.0
CMX07Q03	620 ~ 900	6.35 x 5.08 x 1.50	180	± 0.20	25	0.15	1.12	90 ± 2.0
CMX09P03	700 ~ 1000	2.00 x 1.25 x 0.75	5	± 0.90	17	0.60	1.26	90 ± 7.0
CMX09E03	700 ~ 1000	5.08 x 3.18 x 1.60	40	± 0.25	23	0.25	1.15	90 ± 4.0
CMX09Q03	700 ~ 1000	6.35 x 5.08 x 1.50	200	± 0.30	23	0.14	1.15	90 ± 3.0
CMX15P03	1200 ~ 1700	2.00 x 1.25 x 0.75	5	± 0.60	20	0.50	1.22	90 ± 5.0
CMX15E03	1100 ~ 1800	5.08 x 3.18 x 1.50	25	± 0.35	23	0.25	1.15	90 ± 4.0
CMX15Q03	1200 ~ 1700	6.35 x 5.08 x 1.50	200	± 0.20	25	0.20	1.14	90 ± 2.0
CMX19P03	1700 ~ 2300	2.00 x 1.25 x 0.75	5	± 0.60	24	0.40	1.22	90 ± 5.0
CMX19E03	1700 ~ 2300	5.08 x 3.18 x 1.00	40	± 0.30	20	0.25	1.19	90 ± 4.0
CMX19Q03	1700 ~ 2000	6.35 x 5.08 x 1.50	200	± 0.22	23	0.15	1.15	90 ± 3.0
CMX20Q03	1700 ~ 2200	6.35 x 5.08 x 1.50	200	± 0.30	23	0.22	1.15	90 ± 4.0
CMX21Q03	2000 ~ 2400	6.35 x 5.08 x 1.50	200	± 0.22	23	0.15	1.15	90 ± 3.5
CMX25E03	2300 ~ 2700	5.08 x 3.18 x 1.00	40	± 0.30	20	0.20	1.19	90 ± 4.0
CMX25S03	1800 ~ 2700	14.22 x 5.08 x 2.00	350	± 0.30	20	0.15	1.22	90 ± 4.0
CMX25P03	2200 ~ 2700	2.00 x 1.25 x 0.75	5	± 0.36	24	0.35	1.22	90 ± 5.0
CMX25Q03	2200 ~ 2800	6.35 x 5.08 x 1.50	200	± 0.20	23	0.12	1.12	90 ± 2.0
CMX35P03	3300 ~ 4200	2.00 x 1.25 x 0.75	5	± 0.41	20	0.30	1.22	90 ± 5.0
CMX35E03	3300 ~ 4200	5.08 x 3.18 x 1.50	25	± 0.30	23	0.20	1.15	90 ± 4.0
CMX35Q03	3300 ~ 3850	6.35 x 5.08 x 1.50	100	± 0.25	21	0.25	1.22	90 ± 3.0
CMX45P03	3600 ~ 5100	2.00 x 1.25 x 0.75	5	± 0.50	20	0.50	1.22	90 ± 4.0
CMX45E03	4000 ~ 5000	5.08 x 3.18 x 1.50	40	± 0.30	20	0.20	1.22	90 ± 4.0
CMX50Q03	5000 ~ 6000	6.35 x 5.08 x 2.50	100	± 0.30	17	0.25	1.28	90 ± 4.0
CMX55P03	4400 ~ 6000	2.00 x 1.25 x 0.75	4	± 1.00	22	0.30	1.19	90 ± 7.0
CMX55Q03	5000 ~ 6000	6.35 x 5.08 x 1.50	20	± 0.30	20	0.25	1.28	90 ± 3.0



Configuration	Port 1	Port 2	Port 3	Port 4
Case 1.	Input	Isolated	Output -90°	Coupling 0°
Case 2.	Isolated	Input	Coupling 0°	Output -90°
Case 3.	Output -90°	Coupling 0°	Input	Isolated
Case 4.	Coupling 0°	Output -90°	Isolated	Input

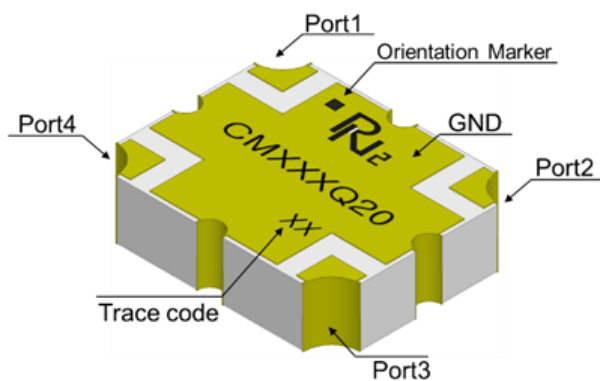


Part Number	Frequency (MHz)	Dimension (mm)	Power (W)	Coupling (dB)	Directivity (dB)	I.L. (dB)	VSWR (Max:1)	Phase Bal. (Degrees)
CMX06E02	600 ~ 800	5.08 x 3.18 x 1.60	40	2.0 ± 0.15	20	0.30	1.22	90 ± 4.0
CMX07E02	690 ~ 1000	5.08 x 3.18 x 1.60	40	1.95 ± 0.15	23	0.25	1.15	90 ± 4.0
CMX09A1P5	700 ~ 900	14.22 x 8.94 x 2.00	80	2.0 ± 0.15	20	0.30	1.22	90 ± 3.0
CMX09E05	700 ~ 1000	5.08 x 3.18 x 1.60	70	5.0 ± 0.30	20	0.25	1.22	90 ± 4.0
CMX09Q02	800 ~ 1000	6.35 x 5.08 x 1.50	150	1.95 ± 0.25	20	0.25	1.22	90 ± 3.0
CMX09Q05	800 ~ 1000	6.35 x 5.08 x 1.50	200	5.0 ± 0.20	23	0.15	1.22	90 ± 3.0
CMX15Q02	1200 ~ 1700	6.35 x 5.08 x 1.50	200	1.95 ± 0.25	20	0.25	1.22	90 ± 3.0
CMX19E05	1700 ~ 2300	5.08 x 3.18 x 1.00	70	5.00 ± 0.25	23	0.20	1.15	90 ± 4.0
CMX19Q02	1700 ~ 2025	6.35 x 5.08 x 1.50	150	1.95 ± 0.25	20	0.25	1.22	90 ± 3.0
CMX19Q05	1700 ~ 2000	6.35 x 5.08 x 1.50	200	5.0 ± 0.20	25	0.10	1.15	90 ± 3.0
CMX21E02	1700 ~ 2300	5.08 x 3.18 x 1.00	40	1.95 ± 0.15	23	0.20	1.15	90 ± 4.0
CMX21Q02	2000 ~ 2300	6.35 x 5.08 x 1.50	80	1.95 ± 0.25	20	0.25	1.22	90 ± 5.0
CMX21Q05	1800 ~ 2300	6.35 x 5.08 x 1.50	200	5.0 ± 0.20	25	0.10	1.12	90 ± 3.0
CMX25E02	2300 ~ 2700	5.08 x 3.18 x 1.00	40	1.95 ± 0.25	20	0.25	1.22	90 ± 4.0
CMX25Q02	2300 ~ 2700	6.35 x 5.08 x 1.50	80	1.95 ± 0.25	20	0.25	1.22	90 ± 5.0
CMX25Q02N	2300 ~ 2700	6.35 x 5.08 x 2.40	80	1.95 ± 0.25	20	0.25	1.22	90 ± 5.0
CMX25P05	2200 ~ 2700	2.00 x 1.25 x 0.75	5	4.90 ± 0.30	20	0.30	1.22	90 ± 5.0
CMX25Q05	2300 ~ 2700	6.35 x 5.08 x 1.50	200	5.0 ± 0.35	26	0.15	1.15	90 ± 3.0
CMX35P02	3300 ~ 3800	2.00 x 1.25 x 0.75	5	2.0 ± 0.25	20	0.30	1.22	90 ± 4.0
CMX35E02	3300 ~ 3800	5.08 x 3.18 x 1.50	60	1.9 ± 0.15	21	0.20	1.15	90 ± 4.0
CMX35Q02	3400 ~ 3600	6.35 x 5.08 x 1.50	80	2.00 ± 0.25	16	0.30	1.29	90 ± 6.0
CMX35P05	3300 ~ 3800	2.00 x 1.25 x 0.75	5	4.90 ± 0.30	20	0.30	1.22	90 ± 5.0
CMX35Q05	3300 ~ 4200	6.35 x 5.08 x 1.50	80	5.0 ± 0.35	20	0.20	1.22	90 ± 3.0
CMX40E02	3600 ~ 4200	5.08 x 3.18 x 1.60	40	2.0 ± 0.25	20	0.30	1.28	90 ± 4.0
CMX40Q02	3600 ~ 4200	6.35 x 5.08 x 1.60	80	2.0 ± 0.25	18	0.30	1.28	90 ± 6.0
CMX45P02	3600 ~ 5000	2.00 x 1.25 x 0.75	5	2.15 ± 0.35	20	0.50	1.22	90 ± 5.0
CMX45E02	4300 ~ 5000	5.08 x 3.18 x 1.60	40	2.0 ± 0.25	20	0.30	1.28	90 ± 5.0



Configuration	Port 1	Port 2	Port 3	Port 4
Case 1.	Input	Isolated	Output -90°	Coupling 0°
Case 2.	Isolated	Input	Coupling 0°	Output -90°
Case 3.	Output -90°	Coupling 0°	Input	Isolated
Case 4.	Coupling 0°	Output -90°	Isolated	Input

Part Number	Frequency (MHz)	Dimension (mm)	Power (W)	Coupling (dB)	Directivity (dB)	I.L. (dB)	VSWR (Max:1)
CMX07Q10	600 ~ 900	6.35 x 5.08 x 1.50	200	10.0 ± 0.80	17	0.20	1.22
CMX30E10	2300 ~ 3800	5.08 x 3.18 x 1.20	80	10.0 ± 0.60	13	0.20	1.22
CMX09P20	700 ~ 1000	2.00 x 1.25 x 0.75	3	20.0 ± 1.50	20	0.15	1.22
CMX14Q20	800 ~ 2200	6.35 x 5.08 x 1.50	200	22.0 ± 1.00	20	0.10	1.25
CMX19P20	1700 ~ 2200	2.00 x 1.25 x 0.75	3	20.5 ± 1.20	20	0.17	1.24
CMX20Q20	1800 ~ 2200	6.35 x 5.08 x 1.50	150	20.0 ± 1.00	20	0.20	1.19
CMX30P20	2300 ~ 3700	2.00 x 1.25 x 0.75	3	19.5 ± 1.00	20	0.14	1.22
CMX30E20	2300 ~ 3800	5.08 x 3.18 x 1.20	100	20.0 ± 1.50	20	0.10	1.22
CMX09Q30	600 ~ 1000	6.35 x 5.08 x 1.50	200	30.0 ± 1.00	20	0.10	1.15
CMX19Q30	1400 ~ 2700	6.35 x 5.08 x 1.20	200	30.0 ± 1.50	20	0.10	1.22
CMX20Q30	1400 ~ 2700	6.35 x 5.08 x 1.20	200	30.0 ± 1.50	20	0.10	1.28
CMX30E30	2300 ~ 3800	5.08 x 3.18 x 1.20	150	30.0 ± 1.50	20	0.075	1.22
CMX35C30	3400 ~ 3800	6.00 x 3.00 x 1.00	20	30.0 ± 1.50	18	0.30	1.40
CMX35Q30	3300 ~ 3700	6.35 x 5.08 x 1.50	20	30.0 ± 1.50	20	0.18	1.43



Configuration	Port 1	Port 2	Port 3	Port 4
Case 1.	Input	Output	Isolated	Coupling
Case 2.	Output	Input	Coupling	Isolated
Case 3.	Isolated	Coupling	Input	Output
Case 4.	Coupling	Isolated	Output	Input



Part Number	Frequency (MHz)	Dimension (mm)	Power (W)	Amp. Bal. (dB)	Isolation (dB)	I.L. (dB)	VSWR (Max:1)	Phase Bal. (Degrees)
RCP200B03	180 ~ 240	25.4 x 12.7 x 2.50	200	± 0.30	20	0.30	1.22	90 ± 3.0
RCP450A03	380 ~ 520	14.22 x 8.89 x 1.90	200	± 0.30	20	0.30	1.22	90 ± 3.0
RCP650A03	470 ~ 860	14.22 x 8.89 x 1.90	200	± 0.35	20	0.23	1.20	90 ± 3.0
RCP650B03N	470 ~ 860	34.0 x 17.0 x 2.50	500	± 0.40	20	0.15	1.30	90 ± 3.0
RCP890Q03	815 ~ 960	6.35 x 5.08 x 1.90	80	± 0.30	18	0.35	1.22	90 ± 3.0
RCP890A03	815 ~ 960	14.22 x 8.89 x 1.90	200	± 0.15	23	0.15	1.20	90 ± 2.0
RCP890S03N	815 ~ 960	14.22 x 5.08 x 1.90	100	± 0.20	21	0.20	1.20	90 ± 3.0
RCP1500Q03	1160 ~ 1700	6.35 x 5.08 x 1.50	80	± 0.30	20	0.25	1.22	90 ± 3.0
RCP1500G03	1000 ~ 1650	14.22 x 8.89 x 1.90	200	± 0.30	20	0.20	1.22	90 ± 3.0
RCP1850Q03N	1700 ~ 2200	6.35 x 5.08 x 1.27	180	± 0.22	23	0.15	1.15	90 ± 3.0
RCP2150Q03	1900 ~ 2300	6.35 x 5.08 x 1.50	80	± 0.30	20	0.20	1.22	90 ± 3.0
RCP2150S03	2000 ~ 2300	14.22 x 5.08 x 1.90	100	± 0.30	23	0.15	1.20	90 ± 2.0
RCP2250C03	1700 ~ 2400	6.00 x 3.00 x 1.00	20	± 0.25	25	0.30	1.22	90 ± 3.0
RCP2300Q03	2200 ~ 2400	6.35 x 5.08 x 1.50	80	± 0.30	20	0.20	1.22	90 ± 3.0
RCP2600C03	2400 ~ 2800	6.00 x 3.00 x 1.00	20	± 0.25	20	0.25	1.22	90 ± 2.0
RCP2650Q03	2300 ~ 2800	6.35 x 5.08 x 1.50	80	± 0.30	20	0.20	1.22	90 ± 3.0
RCP3500Q03	3300 ~ 3800	6.35 x 5.08 x 1.50	80	± 0.30	20	0.30	1.22	90 ± 3.0
RCP3500A03	3300 ~ 3800	14.22 x 8.89 x 1.90	200	± 0.15	20	0.20	1.22	90 ± 3.0

RCP-series

90 Deg Asymmetric Couplers

Part Number	Frequency (MHz)	Dimension (mm)	Power (W)	Coupling (dB)	Directivity (dB)	I.L. (dB)	VSWR (Max:1)	Phase Bal. (Degrees)
RCP890A05	815 ~ 960	14.22 x 8.89 x 1.90	200	5.0 ± 0.35	21	0.19	1.22	90 ± 3.0
RCP2500Q1P5	2300 ~ 2700	6.35 x 5.08 x 2.00	80	1.75 ± 0.25	20	0.20	1.22	90 ± 5.0

RCP-series

Directional Couplers

Part Number	Frequency (MHz)	Dimension (mm)	Power (W)	Coupling (dB)	Directivity (dB)	I.L. (dB)	VSWR (Max:1)
RCP890Q05	815 ~ 960	6.35 x 5.08 x 1.60	80	5.0 ± 0.50	18	0.40	1.32
RCP890Q10	774 ~ 960	6.35 x 5.08 x 1.30	80	10 ± 1.00	15	0.30	1.28
RCP1400Q10	1200 ~ 1700	6.35 x 5.08 x 1.50	80	10 ± 1.00	20	0.25	1.22
RCP1850Q10	1700 ~ 2000	6.35 x 5.08 x 1.00	80	10 ± 1.00	20	0.20	1.22
RCP2150Q10	2000 ~ 2400	6.35 x 5.08 x 1.00	80	10 ± 1.00	20	0.20	1.22
RCP2650Q10	2400 ~ 2800	6.35 x 5.08 x 1.00	80	10 ± 1.00	20	0.20	1.22
RCP3500Q10	3300 ~ 3800	6.35 x 5.08 x 1.00	80	10 ± 1.00	18	0.20	1.22
RCP450Q20	340 ~ 520	6.35 x 5.08 x 1.50	80	20 ± 2.00	16	0.30	1.22
RCP890Q20	815 ~ 960	6.35 x 5.08 x 1.50	80	20 ± 1.00	20	0.30	1.22
RCP1850Q20	1700 ~ 2000	6.35 x 5.08 x 1.00	80	20 ± 1.00	18	0.20	1.20
RCP2500Q20	2300 ~ 2700	6.35 x 5.08 x 1.00	80	20 ± 1.00	20	0.20	1.22
RCP3500Q20	3400 ~ 3600	6.35 x 5.08 x 1.00	80	20 ± 1.00	20	0.22	1.22
RCP890Q30N	815 ~ 960	6.35 x 5.08 x 2.00	150	30 ± 1.50	20	0.10	1.15
RCP2500Q30	2300 ~ 2700	6.35 x 5.08 x 1.00	80	30 ± 1.25	18	0.20	1.22



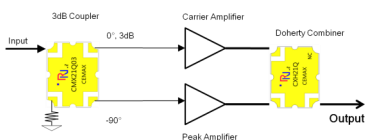
Broadband Couplers

Part Number	Frequency (MHz)	Dimension (mm)	Power (W)	Amp. Bal. (dB)	Isolation (dB)	I.L. (dB)	VSWR (Max:1)	Phase Bal. (Degrees)
RCP1500W03S	500 ~ 2600	45.0 x 10.0 x 2.50	100	± 0.80	18	0.50	1.30	90 ± 5.0
CMXW15B03	600 ~ 2700	25.4 x 12.7 x 2.50	60	± 0.80	15	0.60	1.43	90 ± 5.0
RCP1900W03	800 ~ 3000	50.0 x 10.0 x 2.50	100	± 0.70	18	0.50	1.30	90 ± 5.0

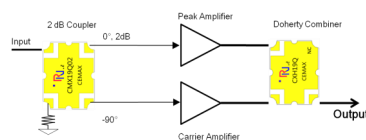
Doherty Combiners

Part number	Frequency (MHz)	Dimension (mm)	Power (W)	Amp. Bal. (dB)	I.L. (dB)	VSWR (Max:1)	Phase Bal. (Degrees)
CXH07S	745 ~ 755	14.22 x 5.08 x 2.00	200	± 0.12	0.15	1.19	90 ± 3.0
CXH08S	860 ~ 870	14.22 x 5.08 x 2.00	200	± 0.20	0.20	1.22	90 ± 3.0
CXH15S	1465 ~ 1515	14.22 x 5.08 x 2.00	150	± 0.12	0.20	1.22	90 ± 3.0
RDO2650Q03	2400 ~ 2800	6.35 x 5.08 x 1.00	80	± 0.20	0.20	1.22	90 ± 10.0

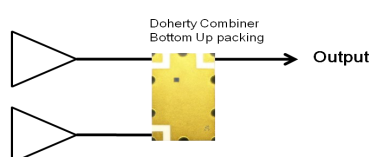
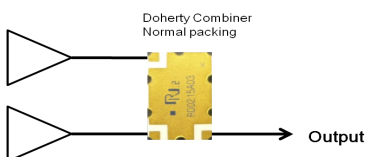
3dB coupler with doherty combiner



2dB coupler with doherty combiner

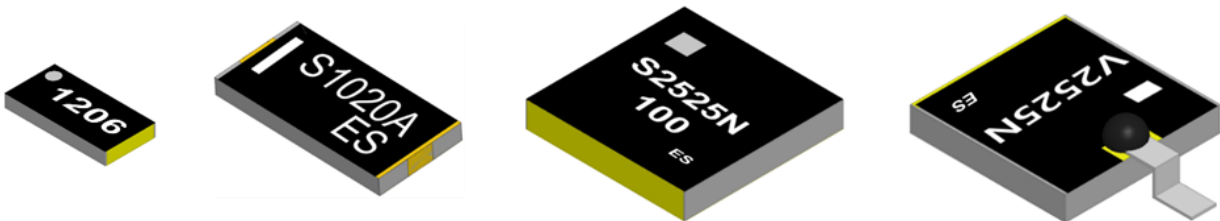


Bottom Up Usage Possible



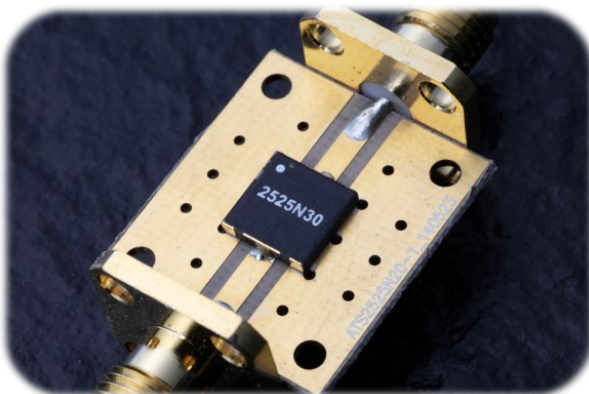
Terminations

Part number	Frequency (MHz)	Dimension (mm)	Power (W)	Impedance (ohms)	VSWR (Max:1)
S1206N	DC ~ 6000	3.05 x 1.52 x 0.38	12	50 ± 2%	1.22
S1020A	DC ~ 4000	2.54 x 5.08 x 0.50	16	50 ± 2%	1.22
S1020N	DC ~ 6000	2.54 x 5.08 x 0.64	50	50 ± 2%	1.15
S2525N100	DC ~ 4000	6.35 x 6.35 x 1.00	150	50 ± 2%	1.22
V2525N	DC ~ 3000	6.35 x 6.35 x 1.00	150	50 ± 2%	1.22
V3737NB	DC ~ 2300	9.52 x 9.52 x 1.50	250	50 ± 2%	1.22



Attenuators

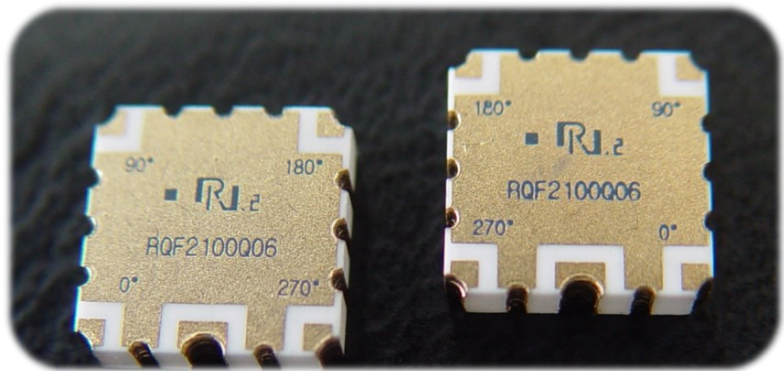
Part number	Frequency (MHz)	Dimension (mm)	Power (W)	Attenuation Value (dB)	VSWR (Max:1)
ATS1020N20S	DC ~ 5000	2.54 x 5.08 x 0.64	30	20 ± 1.0	1.22
ATS1020N30	DC ~ 4000	2.54 x 5.08 x 0.64	30	30 ± 1.5	1.22
ATS2525N30	DC ~ 4000	6.35 x 6.35 x 1.00	100	30 ± 1.5	1.22



Quadrifilar (4-phase antenna feeder)

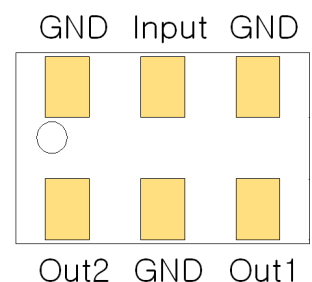
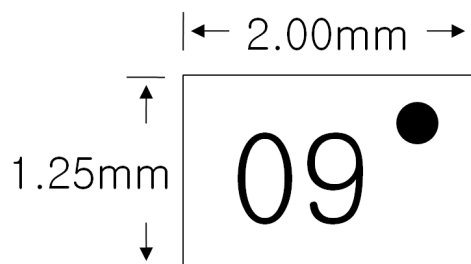
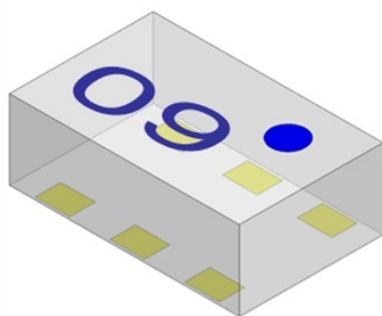
Part number	Frequency (MHz)	Dimension (mm)	Amp. Bal. (dB)	Isolation (dB)	I.L. (dB)	VSWR (Max:1)	Phase Bal. (Degrees)
RQF1200Q06	1165 ~ 1300	8.00 x 8.00 x 1.80	± 0.6	15	0.80	1.32	90 ± 8.0
RQF1600Q06	1520 ~ 1660	8.00 x 8.00 x 1.80	± 0.5	20	0.50	1.30	90 ± 5.0
RQF2100Q06	1980 ~ 2200	8.00 x 8.00 x 1.80	± 0.6	15	0.60	1.38	90 ± 8.0
RQF2500Q06	2400 ~ 2600	8.00 x 8.00 x 2.00	± 0.5	15	0.50	1.45	90 ± 8.0

[Schematic of Quadrifilar Helical GPS Antenna]



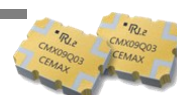
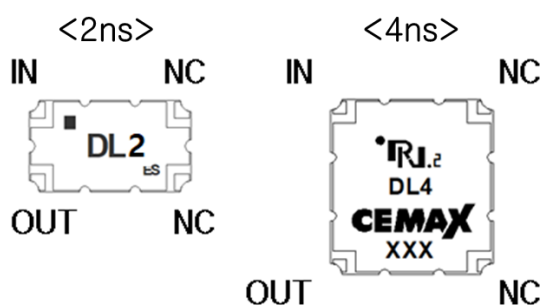
Chip Power Dividers & Combiners

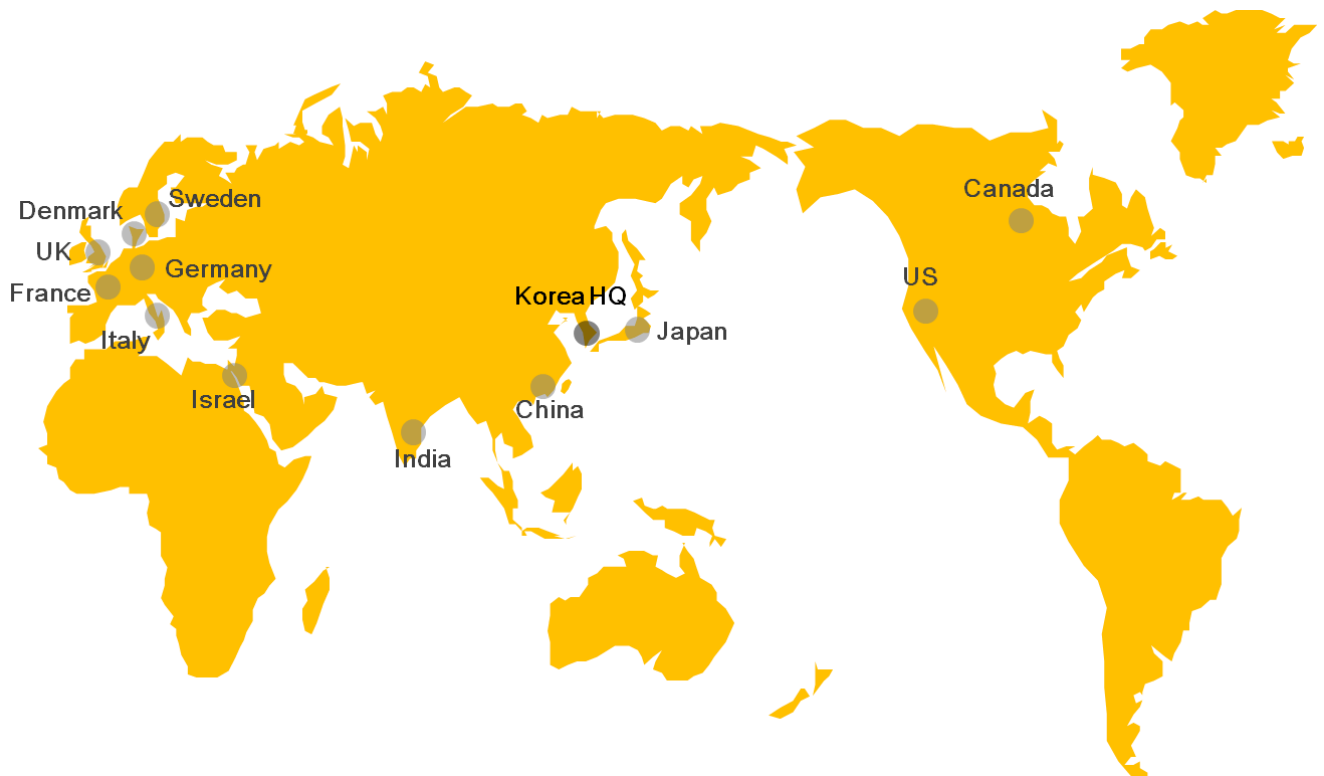
Part number	Frequency (MHz)	Dimension (mm)	Power (W)	Amp. Bal. (dB)	Isolation (dB)	I.L. (dB)	VSWR [In] (Max:1)	VSWR [Out] (Max:1)
CXD09P02	800 ~ 1000	2.00 x 1.25 x 0.80	2	± 0.30	16	0.50	1.50	1.22
CXD15P02	900 ~ 2200	2.00 x 1.25 x 0.80	2	± 0.30	11	0.70	1.78	1.28
CXD21P02	1700 ~ 2200	2.00 x 1.25 x 0.75	2	± 0.30	18	0.60	1.57	1.22
CXD25P02	2300 ~ 2800	2.00 x 1.25 x 0.75	2	± 0.30	17	0.50	1.43	1.22



Delay Lines

Part number	Frequency (MHz)	Group Delay (ns)	Insertion Loss (dB)	Return Loss (dB)	Dimension (mm)
DL2	300 ~ 1500	2.00 ± 0.20	1.8	20	10.16 x 5.08 x 2.00
	1500 ~ 2700	2.00 ± 0.20	2.2	14	
DL4	300 ~ 700	3.95 ± 0.10	1.9	20	10.16 x 11.83 x 2.00
	700 ~ 1000	3.95 ± 0.10	2.3	20	
	1000 ~ 1400	3.97 ± 0.10	2.8	20	
	1400 ~ 1800	4.03 ± 0.10	3.4	17	
	1800 ~ 2100	4.11 ± 0.10	3.8	18	
	2100 ~ 2800	4.20 ± 0.20	4.6	15	





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