



- Industry standard sizes and footprints
- Compact and low profile
- Optimized for thermal and RF performance
- Low insertion loss, tight coupling, low amplitude balance, excellent phase balance
- Dimensionally stable materials for best CTE match
- Castellated vias for trouble-free mounting and ease of visual inspection
- For military and commercial applications
- Custom designed couplers to your specifications



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DRAGON™ line of surface mount 3dB hybrid and directional couplers for most demanding high-power applications. These couplers offer an optimal balance of thermal and repeatable RF performance.

DRAGON™ couplers have tight coupling, low insertion loss, and good phase tracking while being able to withstand high power and temperature extremes. Materials are dimensionally stable and have excellent CTE match to PTFE based laminates, FR4 type and polyimide boards.

DRAGON™ couplers can be used in both, commercial or military applications.

90° HYBRID COUPLERS

| FREQ (MHz) | SIZE (in) | POWER (W) | PART NUMBER |
|------------|-------------|-----------|-------------|
| 380-520 | .650 x .480 | 200 | Q3XD-450R |
| 470-860 | .650 x .480 | 175 | Q3XD-665R |
| 800-1000 | .560 x .350 | 175 | Q3XG-900R |
| 960-1215 | .560 x .350 | 175 | Q3XG-1088R |
| 1000-2000 | .560 x .350 | 85 | Q3XG-1500R |
| 1500-2200 | .560 x .350 | 165 | Q3XG-1850R |
| 2000-4000 | .560 X .350 | 50 | Q3XG-3000R |
| 2300-2700 | .250 x .200 | 80 | Q3XA-2500R |
| 2700-3200 | .250 x .200 | 20 | Q3XA-2950R |
| 3200-3800 | .250 x .200 | 20 | Q3XA-3500R |
| 4000-6000 | .250 x .200 | 20 | Q3XA-5000R |
| 1700-6000 | .560 x .200 | 85 | Q3XB-4000R |

DIRECTIONAL COUPLERS

| FREQ (MHz) | SIZE (in) | COUPLING (dB) | POWER (W) | PART NUMBER |
|------------|-------------|---------------|-----------|--------------|
| 700-1200 | 1.00 x .500 | 30 | 355 | Q30HE-900R |
| 960-1220 | 1.00 x .500 | 20 | 250 | Q20HE-1090R |
| 1800-2000 | .283 x .197 | 10 | 50 | Q10HK-1900R |
| 1800-2200 | .560 x .350 | 7.5 | 175 | Q7P5HG-2100R |
| 695-1000 | .560 x .350 | 7.5 | 175 | Q7P5HG-900R |
| 800 -1000 | .283 x .197 | 20 | 80 | Q20HK-900R |
| 800 -1000 | .283 x .197 | 10 | 80 | Q10HK-900R |
| 800 -1000 | .283 x .197 | 15 | 50 | Q10HK-900R |
| 1800-2000 | .283 x .197 | 20 | 80 | Q20HK-1900R |
| 2100-2200 | .283 x .197 | 20 | 80 | Q20HK-2150R |

