

Panasonic Hybrid Passive RF/Microwave Devices

Note: All drawings are top view.

These components are suited for Mobile Phones (Handsets/Base Stations), Navigation Devices (GPS), Pagers, Mobile Computing (PCs and PDAs), Mobile Data Terminals, Wireless Microphones, Cordless Phones and Wireless Local Area Network (WLAN) applications.

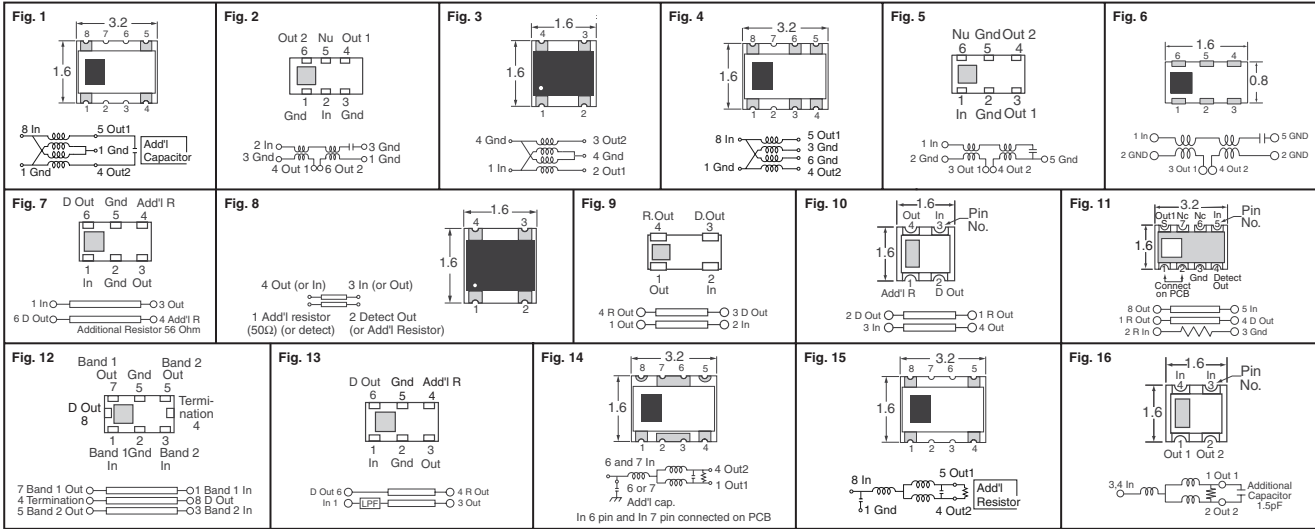
SPECIFICATIONS: • Operating Temperature: -30°C – 85°C • Soldering: 230°C for 5 seconds

BALUN: Ultra small, thin precision, with ultra-fine geometry baluns to meet your single-ended to double-ended to electronic circuitry interface requirements. **Application:** Single/Double Ended Mixer, Differential Amp, Matching.

DIRECTIONAL COUPLER: Miniaturized, high coupling efficiency, low-cost, with ultra-fine geometry directional couplers to meet your most demanding coupling needs. **Application:** To control transmitted power.

DIRECTIONAL COUPLER with LC FILTER: A directional coupler having the above same features and benefits, but also incorporating an LC Filter. **Application:** To control transmitted power while suppressing spurious noise.

POWER DIVIDER: Miniaturized, high efficiency/low-loss, with ultra-fine geometry, three port power divider to meet your circuitry power handling requirements. **Application:** To divide internal signals (ex. VCO).



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Fig.	Description	Operating Frequency (Mhz)	Impedance In/Out (Ω)	Insertion Loss (Maximum)	Difference of Phase (Degree)	Size (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel Pricing		Panasonic Part No.
								1	10	100	Qty.	Pricing	
1	Balun	380 – 430	50/200	1dB	180 ±15	3.2 x 1.6	P10702CT-ND	.96	.90	.74	500	285.61	EHF-FD1617
		1700 – 1900	50/50	.8dB	180 ±10	3.2 x 1.6	P12025CT-ND	.92	.86	.71	—	—	EHF-1BD1800
		1700 – 1900	50/100	.8dB	180 ±10	3.2 x 1.6	P12026CT-ND	.92	.86	.71	—	—	EHF-1BE1800
		1700 – 1900	50/200	.8dB	180 ±10	3.2 x 1.6	P12028CT-ND	.92	.86	.71	—	—	EHF-1BG1800
3	Balun	824 – 894	50/200	1dB	180 ±15	1.6 x 1.6	P10703CT-ND	.96	.90	.74	4,000	548.37/M	EHF-FD1622
		880 – 960	50/200	2dB	180 ±15	1.6 x 1.6	P10706CT-ND	.96	.90	.74	4,000	548.37/M	EHF-FD1620
		1700 – 1900	50/200	1dB	180 ±15	3.2 x 1.6	P10711-ND†	.86	.81	.67	—	—	EHF-FD1626
		1700 – 1900	50/50	1.0dB	180 ±15	2.0 x 1.25	P12029CT-ND	.92	.86	.71	—	—	EHF-2BD1800
5	Balun	1920 – 2170	50/50	1.0dB	180 ±15	2.0 x 1.25	P12030CT-ND	.92	.86	.71	—	—	EHF-2BD2060
		1700 – 1900	50/100	1.0dB	180 ±15	2.0 x 1.25	P12033CT-ND	.92	.86	.71	—	—	EHF-2BE1800
		2400 – 2500	50/100	1.0dB	180 ±15	2.0 x 1.25	P12035CT-ND◆	.92	.86	.71	—	—	EHF-2BE2450
		1700 – 1900	50/200	1.0dB	180 ±15	2.0 x 1.25	P12037CT-ND	.92	.86	.71	—	—	EHF-2BG1800
		1920 – 2170	50/200	1.0dB	180 ±15	2.0 x 1.25	P12038CT-ND	.92	.86	.71	—	—	EHF-2BG2060
		2400 – 2500	50/200	1.0dB	180 ±15	2.0 x 1.25	P12039CT-ND	.92	.86	.71	—	—	EHF-2BG2450
		3400 – 4000	50/100	1.0dB	180 ±20	2.0 x 1.25	P12041CT-ND	.92	.86	.71	—	—	EHF-FD1755T
		5150 – 5350	50/100	1.2dB	180 ±15	1.6 x 0.8	P12428CT-ND	2.44	2.27	1.87	—	—	EHF-4BE5250

Fig.	Description	Operating Frequency (Mhz)	Coupling Factor (dB)	Insertion Loss (Maximum)	Isolation (Minimum)	Voltage Standing Wave Ratio (Maximum)	Size (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel Pricing		Panasonic Part No.
									1	10	100	Qty.	Pricing	
7	Dirac. Coupler	1710 – 1785	14 ±1	.35dB	22dB	1.3	1.6 x .8	P12043CT-ND	.78	.72	.60	—	—	EHF-4CM1747
8	Directional Coupler	800 – 1000	17 ±2	.30dB	24dB	1.3	1.6 x 1.6	P10684CT-ND	.82	.77	.63	4,000	470.31/M	EHF-FD1540
		1850 – 1950	14 ±2	.40dB	19dB	1.3	1.6 x 1.6	P10691CT-ND	.82	.77	.63	4,000	470.31/M	EHF-FD1541
9	Directional Coupler	1710 – 1910	17 ±1.5	.25dB	27dB	1.3	1.6 x .8	P12044CT-ND	.78	.72	.60	—	—	EHF-4CQ1810
		820 – 850	20 ±1	.25dB	30dB	1.3	1.6 x .8	P12045CT-ND	.78	.72	.60	—	—	EHF-4CT0835
10	Directional Coupler	1850 – 1950	20 ±1	.3dB	26dB	1.3	1.6 x 1.6	P12046CT-ND	.78	.72	.60	—	—	EHF-FD1542
		1850 – 1950	17 ±1	.3dB	23dB	1.3	1.6 x 1.6	P12047CT-ND	.78	.72	.60	500	230.72	EHF-FD1548
11	Dirac. Coupler	800 – 1000	14 ±2	.4dB	20dB	1.3	3.2 x 1.6	P12048CT-ND	.78	.72	.60	—	—	EHF-FD1556
		880 – 915	19 ±2	.35dB	24dB	1.5	2.0 x 1.25	P12049CT-ND	.78	.72	.60	500	230.72	EHF-FD1812D
12	Dual Directional	1710 – 1785	14 ±1.5	.45dB	17dB	1.5	2.0 x 1.25	P12050CT-ND	.78	.72	.60	—	—	EHF-FD1824
		880 – 915	14 ±1	.45dB	18dB	1.5	2.0 x 1.25							
		1710 – 1785	14 ±1	.45dB	18dB	1.5	2.0 x 1.25							

Fig.	Description	Operating Frequency (Mhz)	Coupling Factor (dB)	Insertion Loss (Maximum)	2F0 Attenuation (Minimum)	3F0 Attenuation (Minimum)	Size (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel Pricing		Panasonic Part No.
									1	10	100	Qty.	Pricing	
13	Dirac. Coupler with Filter	880 – 915	20 ±1	.45d	22dB	17dB	2.0 x 1.25	P12051CT-ND	.92	.86	.71	—	—	EHF-FD1728
		1710 – 1785	20 ±1	.45d	22dB	17dB	2.0 x 1.25	P12052CT-ND	.92	.86	.71	500	273.92	EHF-FD1729

Fig.	Description	Operating Frequency (Mhz)	Insertion Loss (Maximum)	Isolation (Minimum)	Voltage Standing Wave Ratio (Maximum)	Size (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel Pricing		Panasonic Part No.
								1	10	100	Qty.	Pricing	
14	Power Divider	720 – 760	4.0dB	18dB	1.8	3.2 x 1.6	P10715-ND†	1.03	.96	.79	—	—	EHF-FD1502
15	Power Divider	981 – 1008	4.0dB	18dB	2.1	3.2 x 1.6	P10716-ND†	1.03	.96	.79	—	—	EHF-FD1508
		1546 – 1630	4.0dB	18dB	1.9	3.2 x 1.6	P10717CT-ND	.98	.92	.75	4,000	561.06/M	EHF-FD1503
		1607 – 1685	4.0dB	18dB	1.6	3.2 x 1.6	P10718-ND†	.98	.92	.75	—	—	EHF-FD1506
		1880 – 1920	4.0dB	18dB	1.6	3.2 x 1.6	P10720-ND†	.98	.92	.75	—	—	EHF-FD1507
		2043 – 2104	4.0dB	18dB	1.6	3.2 x 1.6	P10721-ND†	.98	.92	.75	—	—	EHF-FD1509
16	Power Divider	945 – 979	4dB	18dB	2.1	1.6 x 1.6	P12054CT-ND	.78	.72	.60	—	—	EHF-FD1779

◆ RoHS Compliant † Bulk Package ‡ For Tape and Reel part number, change CT-ND to TR-ND.

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