

55 SERIES 1.0 GHz SPLITTERS & COUPLERS [DC/DS55G-x] **TaiTin**

Cable Products, Mainline Splitters & Couplers

Features

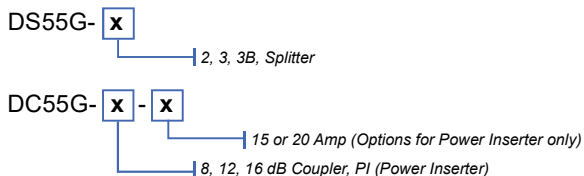
- 5-1002 MHz bandwidth
- 15 A Current Capacity / 15 A, (or 20 A) Current Capacity for Power Inserter
- Aluminum Alloy Housing Used for Corrosion Resistant
- Double Polyurethane Coating for Greater Weather Protection
- Neoprene Weather Gasket and RFI Shielding at 120 dB
- Printed Circuit Board
- Aerial or Pedestal Installation
- Rotational Seizure Mechanism for Aerial or Pedestal Installation
- Compliant with SCTE Guidelines



Application

Both a directional coupler (unequal power divider) and splitter (equal power divider) split your network's trunk and feederlines. A line power inserter enables a single cable to service the power and signal requirements of active modules in a broadband telecommunications network by passively combining radio frequency (RF) signals with up to 90 volts alternating current (VAC) from a line power supply.

Ordering Information



Model Number	Standard Carton	Inner Box	Carton Weight	dB Values Available
DS55G-xx	30 pcs	10 pcs	20 kgs / 44 lbs	2, 3, 3B Splitter
DC55G-xx	30 pcs	10 pcs	20 kgs / 44 lbs	8, 12, 16 dB Coupler, -PI Power Inserter

Customization available upon request

General Specifications

Power Passing:	15 A, 60/90 VAC for Directional Splitters & Directional Couplers 15 A, (20 A Optional) 60/90 VAC for Power Inserter
Hum Modulation @10Amp:	-60 dB
Surge Withstand:	IEEE C62.41-1991 Category B3/6kV Combination Wave, 3000 A
Waterproof Condition:	1.2kg/cm ² 60 sec
Surge Protection:	1kV 1.2/50 ms
Impedance:	75 Ohms
Connectors:	In/Out 5/8" -24 NEF female

Mainline Splitters - 1.0 GHz**Insertion Loss (dB) Tolerance: ± 0.25**

Frequency	DS55G-2	DS55G-3B	DS55G-3		dB
	5-42 MHz	3.9	6.3	4.0	
43-600 MHz	4.2	6.3	4.2	7.6	dB
601-800 MHz	4.5	6.7	4.6	8.1	dB
801-1002 MHz	5.1	7.7	5.2	9.3	dB

Output - Output Isolation (dB)

Frequency	DS55G-2	DS55G-3B	DS55G-3	dB
	5-15 MHz	21	22	
16-400 MHz	25	22	24	dB
401-600 MHz	21	22	22	dB
601-800 MHz	20	21	22	dB
801-1002 MHz	20	20	20	dB

Return Loss - Input / Output (dB)

Frequency	DS55G-2	DS55G-3B	DS55G-3	dB
	5-42 MHz	17	17	
43-600 MHz	18	18	18	dB
601-800 MHz	17	16	17	dB
801-1002 MHz	17	17	17	dB

Mainline Couplers - 1.0 GHz**Insertion Loss (dB) Tolerance: ± 0.25**

Frequency	DC55G-8	DC55G-12	DC55G-16	DC55G-PI-x	dB
	5-42 MHz	2.2	1.2	1.0	
43-600 MHz	2.2	1.3	1.2	0.7	dB
601-800 MHz	2.5	1.7	1.4	0.9	dB
801-1002 MHz	3.1	2.2	2.0	1.0	dB

Tap Value (dB) Tolerance: ± 1.5

Frequency	DC55G-8	DC55G-12	DC55G-16	DC55G-PI-x	dB
	5-600 MHz	8	12	16	
601-800 MHz	8	12	16		dB
801-1002 MHz	8	12	16		dB

Mainline Couplers - 1.0 GHz (cont.)**Output - Tap Isolation (dB)**

	DC55G-8	DC55G-12	DC55G-16	DC55G-PI-x		
Frequency	5-15 MHz	21	23	24	63	dB
	16-400 MHz	28	27	30	60	dB
	401-600 MHz	25	25	27	60	dB
	601-800 MHz	21	21	20	60	dB
	801-1002 MHz	20	20	20	52	dB

Return Loss - Input / Output (dB)

	DC55G-8	DC55G-12	DC55G-16	DC55G-PI-x		
Frequency	5-42 MHz	17	17	17	18	dB
	43-600 MHz	18	18	18	18	dB
	601-800 MHz	17	17	17	17	dB
	801-1002 MHz	17	17	17	17	dB

Hum Modulation @ 10 A (dB)

	DS55G-2	DS55G-3B	DS55G-3	DS55G-8	DS55G-12	DS55G-16	DS55G-PI-x
Frequency	5-1002 MHz	≥ -70	≥ -70	≥ -70	≥ -70	≥ -70	≥ -70

Screening Effectiveness (dB)

	DS55G-2	DS55G-3B	DS55G-3	DS55G-8	DS55G-12	DS55G-16	DS55G-PI-x
Frequency	5-30 MHz	≤ 2.5	≤ 2.5	≤ 2.5	≤ 2.5	≤ 2.5	≤ 2.5
	31-1002 MHz	≥ 95	≥ 95	≥ 95	≥ 95	≥ 95	≥ 95