

PRODUCT FAMILY	DESCRIPTION
OUTDOOR RF PASSIVES	SPLITTERS, TAPS AND POWER INSERTERS - REGAL STYLE
FEATURES	
	>> HIGH performance for EXTREME environmental conditions
	>> Intended for use in DISTRIBUTION NETWORKS
	>> Frequency range up to 1218 MHz
	>> Well SCREENED HOUSINGS , meets and exceeds CENELEC CLASS A
	>> Umbrella REGAL STYLE housing designed with weather resistant powder coating

OUTDOOR LINE SPLITTERS and DC COUPLERS

are high performance passives to split signal and power in coaxial trunk and distribution lines of HFC networks

ELECTRICAL SPECIFICATIONS - DC COUPLERS AND SPLITTERS

	3DC-8	3DC-12	3DC-16	3SP-2	3SP-3	3SP-3U	
INSERTION LOSS (dB, Max.) - IN TO OUT							
Frequency (MHz)						Low	High
5 - 65 ⁽¹⁾	2.0	1.5	1.5	4.1	6.5	4.1	7.4
65 - 300	2.3	1.7	1.9	4.3	7.0	4.3	7.5
300 - 550	2.5	1.9	1.9	4.5	7.5	4.5	7.6
550 - 750	2.7	2.1	2.3	4.6	7.7	4.6	7.7
750 - 862	2.9	2.3	2.3	4.8	7.7	4.9	8.0
862 - 1000	3.1	2.5	2.7	4.9	7.8	5.0	8.4
1000 - 1218	3.3	2.8	2.8	5.2	8.2	5.3	8.9
INSERTION LOSS (dB, Max.) - IN TO TAP							
5 - 65 ⁽¹⁾	9.0	13.0	17.0	-	-	-	-
65 - 300	9.0	13.0	17.0	-	-	-	-
300 - 550	9.0	13.0	17.0	-	-	-	-
550 - 750	9.0	13.0	17.0	-	-	-	-
750 - 862	9.0	13.0	17.0	-	-	-	-
862 - 1000	9.0	13.0	17.0	-	-	-	-
1000 - 1218	9.8	13.8	17.8	-	-	-	-
ISOLATION (dB, Min.) - OUT TO TAP (OUT)							
5 - 65 ⁽¹⁾	26	26	32	26	22	25	25
65 - 550	24	27	30	24	24	24	24
550 - 860	23	25	28	22	23	23	23
860 - 1000	22	23	26	22	22	22	22
1000 - 1218	21	22	24	20	20	21	21
RETURN LOSS (dB, Min.) - ALL PORTS							
5 - 47 ⁽¹⁾	18	18	18	18	18	18	18
47 - 950 ⁽²⁾	18	18	18	18	18	18	18
950 - 1218	10	10	10	10	10	10	10

ELECTRICAL SPECIFICATION – LINE POWER INSERTER 3LPI

INSERTION LOSS (dB, Max.) - IN TO OUT		ISOLATION (dB, Min.) - RF TO AC		RETURN LOSS (dB, Min.) - ALL PORTS	
5 - 65 (MHz)	0.8	5 - 47 (MHz)	65	5 - 47 (MHz)	18
65 - 300	1.1	47 - 470	60	47 - 850	18
300 - 550	1.2	470 - 1006	55	950 - 1218	10
550 - 750	1.3	1006 - 1218	50		
750 - 862	1.3				
862 - 1006	1.4				
1006 - 1218	1.6				

GENERAL SPECIFICATIONS

Nominal impedance	75 Ohm	Frequency range	5-1218 MHz
Operating temperature range	-40 C° to +60 C°	Output connectors	5/8
Enclosure classification	IP67	EMC compatibility	EN60782-2, Class A
HUM modulation ⁽³⁾	70 dB @ 10A / 65 VAC	Surge immunity ⁽⁴⁾ Each port (Min.)	2 kV
Nominal current	15A @ 90 VAC	Dimensions (h x w x d)	144 mm x 74 mm x 124 mm
Weight	0.65 kg		

Notes:

- (1) Between 5MHz and 15MHz the above specifications are typical values and not min or max values
- (2) At F≥47 MHz -1.5 dB per octave
- (3) Typically -60dB @ 10A / 65 VAC between 10Mhz and 55Mhz; -50dB @ 10A / 65 VAC below 10Mhz
- (4) 2 kV, 1,2/50 µs surge voltage according to IEC 61000-4-5

ORDERING INFORMATION

3DC-8-RE, 3DC-12-RE, 3DC-16-RE, 3SP-2-RE, 3SP-3-RE, 3SP-3U-RE, 3LPI-RE
RE for Regal housing type