

POWER SPLITTER/COMBINER

3-WAY, 0°, 698-4200 MHz

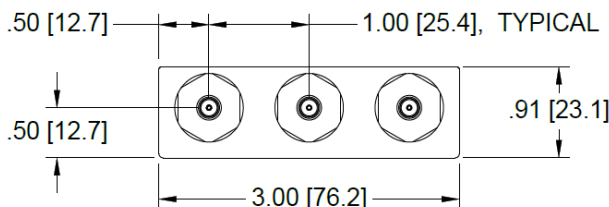
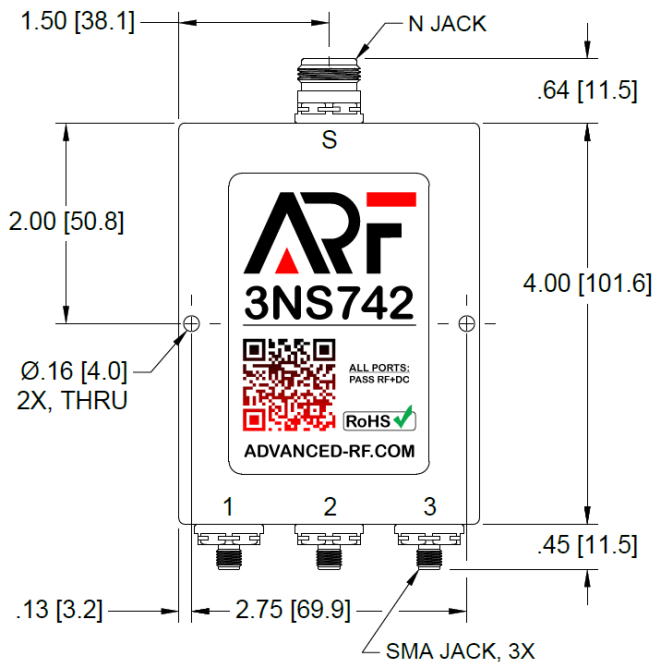
MODEL 3NS742

FEATURES

- BROADBAND, 698-4200 MHz
- LOW INSERTION LOSS (0.7 AVG)
- HIGH ISOLATION (>25 dB AVG)
- MIXED CONNECTORS - ELIMINATE ADAPTERS

APPLICATIONS

- 5G C-BAND
- LTE
- UWB
- WIMAX
- DAS
- PCS/DCS/UMTS
- GSM
- AND MORE



OUTLINE DIMENSIONS: INCH [MM]

ELECTRICAL

FREQUENCY (MHz)	698 - 4200
IMPEDANCE	50 Ω
INSERTION LOSS (dB)	1.5 MAX (ABOVE -4.77 dB SPLIT)
AMPLITUDE BALANCE (dB)	0.6 MAX
PHASE BALANCE (DEG)	4 MAX
ISOLATION (dB)	20 MIN
VSWR (PORT S)	1.35:1 MAX
VSWR (PORT 1-3)	1.25:1 MAX

RF POWER RATING (WATTS)

AS SPLITTER ¹	AS COMBINER ²
50	1.0

- 1) ALL OUTPUT PORTS MUST TERMINATE 50 OHM (LOAD VSWR 1.20:1 OR BETTER).
- 2) AS COMBINER OF NON-COHERENT SIGNALS, MAX INPUT POWER PER PORT.



MECHANICAL

CONNECTORS	N JACK, BRASS, TRI-ALLOY PLATE
	SMA JACK, BRASS, TRI-ALLOY PLATE
CONTACT PINS	N(F) PHOSPHOR BRONZE, GOLD PLATE
	SMA(F) BECU, GOLD PLATE
HOUSING	ALUMINUM, CHEMICAL FILM
INSULATOR	PTFE, ELECTRICAL GRADE
TEMPERATURE	-55°C TO +85°C
WEIGHT	357 GRAMS

AdvancedRF power splitter/combiner model 3NS742 eliminates the need for coaxial adapters in mixed connector applications. A superior 3-way microstrip Wilkinson power divider circuit optimized to provide industry leading, wideband performance from 698 - 4200 MHz, covering global communication bands. Model 3NS742 includes a N(f) connector at the sum port and SMA(f) connectors on ports 1-3. All Advanced RF power splitter/combiner models can be easily configured with N, SMA, TNC, BNC and QMA connectors, in any combination. RoHS compliant.

AdvancedRF