

Item no. 49041902-01

3.5/12M-TL419TI
Alcatel ACE 7 PTC .500

Frequency Range 0.3 - 3000 MHz
Impedance (Nom.) 75 Ω
(calculated) 16.0 A @10°C increase
22.6 A @20°C increase

Product photo



Transfer Impedance (CoMeT) Class A++
<0.9 mΩ/m @ 5-30MHz
<0.06 mΩ/item @ 5-30MHz

Screening Attenuation(CoMeT) Class A++
>105 dB @ 30-1000MHz
>95 dB @ 1000-2000MHz
>85 dB @ 2000-3000MHz

| Return Loss (IEC 61169-1) | Better than | Typical |
|---------------------------|-------------|----------|
| 0.3 - 500 MHz | -34 dB | -37.1 dB |
| 500 - 860 MHz | -34 dB | -37.1 dB |
| 860 - 1000 MHz | -34 dB | -37.1 dB |
| 1000 - 1750 MHz | -22 dB | -25.2 dB |
| 1750 - 2150 MHz | -20 dB | -22.6 dB |
| 2150 - 3000 MHz | -20 dB | -22.6 dB |

| Insertion Loss Max. | Better than | Typical |
|---------------------|-------------|----------|
| 0.3 - 500 MHz | -0.07 dB | -0.02 dB |
| 500 - 860 MHz | -0.08 dB | -0.03 dB |
| 860 - 1000 MHz | -0.08 dB | -0.03 dB |
| 1000 - 1750 MHz | -0.11 dB | -0.06 dB |
| 1750 - 2150 MHz | -0.11 dB | -0.06 dB |
| 2150 - 3000 MHz | -0.13 dB | -0.08 dB |

Temperature
Installing -5° to +50° C
Operating -40° to +70° C
Storing -40° to +70° C

Intermodulation IM3
3rd Order (@2x+37dBm) -167 dBc

Inner Conductor Resistance
(@ 1 A DC) <0.6 mΩ

Sealing Test
(IEC IP-code) IP X8 30 meter / 8 hours

Insulation Resistance
(@ 500 VDC) >200 GΩ

O-rings EPDM

Dielectric Strength
DC Test Voltage >3.5 KV

Base Material
Body Parts Brass CuZn39Pb3
Inner Conductor Brass CuZn39Pb3

Max. Tensile Strength
Overall >2000 N
Inner Conductor >500 N

Plating
Body Parts Nitin-6
Inner Conductor Nitin-6

Torsional Strength
(Connector / Cable) >10.0 Nm

Insulators COC (Topas) / PP with Glass

Test performed by Søren B. Sørensen
Date of release November 21, 2013

Remarks

*All tests performed using instruments calibrated in accordance to our ISO 9001 certification.
Further technical specifications and installation instructions can be obtained on request.*